DOOR PHONE AND
VIDEO DOOR PHONE SYSTEM
PRODUCT TECHNICAL MANUAL

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DOOR PHONE
&
VIDEO DOOR PHONE SYSTEMS

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The Urmet Domus products described in this manual can be used to make door phone and video door phone systems to satisfy all needs.
The full range of products offered by Urmet Domus is suitable for both one-family installations and complex systems with several doors (riser columns).
The design of the devices to be installed inside and outside the apartments ensures appealing solutions for all types of architecture.
The various devices are careful designed to ensure easy installation, maintenance and use. Components are modular which means a only limited number of components need to be kept in stock.

Each section in this manual can be downloaded from the www.urmetdomus.com web site, technical manual area.

SYSTEM TYPOLOGIES

DOOR PHONE SYSTEMS

Door phone systems functions include conversation, calling and door opening in a normal electrical system.
The following devices are needed to make a basic door phone system:
- panel with buttons and door unit;
- apartment station door phones;
- door phone system power unit.

Door phone systems are split into two families according to the number of wires needed to make the system.

VIDEO DOOR PHONE SYSTEMS

Urmet Domus video door phone systems ensure a high level of user safety; visitors can be recognised at the door (of a detached house, a semi-detached house or a block of flats) thanks to the picture which appears on the monitor located inside.
The following devices are needed to make a basic video door phone system:
- panel with buttons, door unit and camera;
- apartment station video door phones;
- video door phone system power unit.

Either black and white or colour video door phone systems are available using specific monitors and camera.
Video door phone installation is simple and quick thanks to the use of specific brackets with terminal boards onto which the monitor is fastened.
Two system types are available: coax and 5 wires.

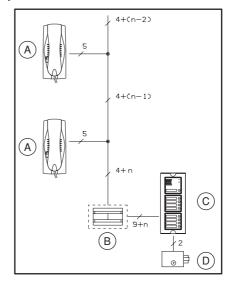
CHOOSING THE RIGHT SYSTEM

DOOR PHONE SYSTEMS

"4+n" wire systems

This type of system employs 4 wires (2 for voice in and out, 1 for door phone power ground and 1 for operating the electrical lock) plus one call wire.
The system may implement either traditional or electronic call tone options.

Door phones with different designs and colour are available for 4+n wire electronic call systems.
The call tone is sent directly to the speaker used for normal communication with the door unit. The tone is a modulated two-tone note (1200 and 750 Hz) in this case.
Door phones with special functions can be used (privacy indicator and door monitoring LED, voice circuit on button, additional buttons directly on the door phone top). Various accessories are also available (three-tone gong, call volume adjustment kit, etc.).
Various doors phones can be connected one to the each other in addition to the door unit for making intercom systems.

Traditional call systems are suitable for making new systems with call signal to a dedicated buzzer fitted inside the door phone.
This type of door phone is suitable for replacing 1030, 930 and 730 model door phone in existing systems and for making intercom systems.

KEY
A: Door phone
B: Power unit
C: Panel
D: Electrical lock

"1+1" wire systems

"1+1" wires systems are available with electronic call option only. These systems are characterised by simple wiring with only 2 wires for each user.
They are suitable for making new installations and are most appreciated for use in old buildings to replace an existing call only system (button and bell). The existing service can be transformed into a door phone system without adding wires to the column or in the apartments.
In this systems, only the called door phone can pick up the conversation with the visitor (no other users can cut into the call in progress) and open the electrical door lock.

Existing call only system

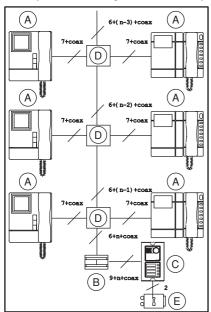
KEY
A: Door phone
B: 12V transformer
C: Panel
D: Electrical lock
E: Lock release button
F: Apartment ringer
G: Floor call button

"1+1" wire door phone system

KEY
A: Door phone
B: 12V transformer
C: Panel
D: Electrical lock
E: Lock release button
F: Apartment ringer
G: Floor call button

VIDEO DOOR PHONE SYSTEMS

Coax systems

The construction of a coax video door phone system is similar to that of an electronic call "4+n" door phone system with the addition of video functions. The wires are the same as those shown for the door phone system with the addition of those needed to power the camera and the monitor, in addition to the coax cable for the video signal.
This system offers countless possible configurations for both black and white and colour installations; it is particularly indicated when there is a long distance between the camera and the monitors.
Apartment stations in coax systems can be connected one to another to make intercom systems.
Apartment stations in coax systems can be complemented with a wide range of accessories (three-tone gong, Scaitel picture memory module, supplementary buzzer, etc.).
Simple "4+n" door phones can be connected to the coax video door phone system for offering voice service only.

KEY
A: Apartment station
B: Power unit
C: Video door unit
D: Video distribution
E: Electrical lock

"5 wire" systems

These systems are particularly suitable for new installations and for transforming existing door phone systems into video door phone systems without addition other wires in the column and the apartments.
Urmet Domus 5 wire video door phone systems (without coax) can be used to make video door phone systems with only 4 wires for powering the monitor and the video signal plus 1 wire for the call signal.
The picture only appears on the called monitor. Conversation is private. Users must have been called to connect to the door unit.
Simple "1+1" door phones can be connected to the 5 wire video door phone system for offering voice service only.

Existing door phone system

KEY
A: Door phone system power unit
B: Video power unit
C: Electrical lock
D: Camera unit
E: Door unit
F: Panel

5 wire video door phone system

KEY
G: Apartment station
H: Distribution box
I: Conversation privacy board
L: Door phone (Ref. 1132/35)
M: Door phone

CONVERSATION PRIVACY

Special conversation privacy circuits are fitted inside the panel (one for each button) to ensure privacy for all 1+1 wire door phones and 5 wire video door phones in the system. All door phones and video door phones are normally deactivated (no sound is heard when the handset is picked up); only the device called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called device remains activated until the following call is made from the panel to another device.
Operation of the electrical door lock is also enabled by the privacy circuit. Consequently, a call must be received to open the lock.

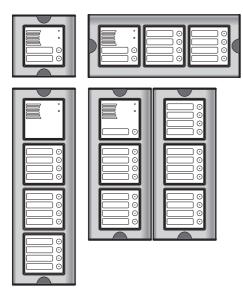
The conversation privacy function is not standard in normal 4+n door phone systems and standard coax video door phone systems. This means that all users can listen into a conversation in progress with a visitor simply by picking up the handset.
This is because all door phone voice lines are connected in parallel to the same conversation circuit.
Conversation privacy can be obtained in door phone systems by using a specifically designed device to be fitted in each 1131/5 door phone (this device can only be fitted in 1132 and 1131 door phones). A device (5330/60) in common to the entire system must be arranged in the panel to deactivate any 1131/5 conservation privacy devices activated by a previous call. This device consequently ensures absolute secrecy also if a door phone remains off the hook.
The conversation privacy function can be obtained by fitting a special bracket with conversation privacy and switch-off device (5330/60) in the panel in coax video door phone systems.

CE MARKING

CE conformity marking indicates that the product respects the requirements of the applicable European Community Directives in force (specifically 73/23/EEC, 93/68/EEC and the Electromagnetic Compatibility Directive 89/336).
CE marking is applied by the manufacturer (or party delegated to do so by the manufacturer) under their own responsibility. It was created to eliminate obstacles to the circulation of productions in European Union Member States by harmonising different national standards.
As required by the aforesaid Directives, Urmet Domus prepares Technical Documentation of each product on which CE marking is affixed before marketing the product. The Technical Documentation describes the device and lists the standards to which it complies, documenting the test carried out.
Urmet Domus also writes a CE Declaration of Conformity which is filed at the company's headquarters with the Technical Documentation in a booklet which is available for checks and inspections by the competent authorities for no less than ten years after the last product was marketed.
The CE marking is affixed on products after completing all design, production and product testing activities. Inspections are guaranteed by the Urmet Domus UNI EN ISO 9001:2000 compliant Quality Assurance System
(certificate nr. 9110.URMD issued by CSQ accredited body).

EC CONSUMER RIGHTS

The consumer has legal rights under applicable national legislation governing the sale of consumer goods as per European Directive 1999/44/EC 25 May 1999. Urmet Domus guarantees all products from lack of conformity which become apparent within two years from the date of purchase.
Urmet Domus shall repair or replace the goods in the event of lack of conformity taking into account:
- the value the goods would have if there were no lack of conformity;
- the significance of the lack of conformity;
- whether the alternative remedy can be completed without significant inconvenience for the consumer.

Goods shall be brought back to conformity by Urmet Domus or the company 's representative on the national territory within a reasonable time taking into account of the nature of the goods,the purpose for which they were purchased and the method undertaken to bring the goods into conformity.Consumers will not be entitled to have the goods brought back to conformity in the following cases:
- disrespect of instructions for installation and use;
- accidental causes or negligence of the consumer (specifically for outdoor surfaces);
- modifications or repairs carried out by personnel not authorised by Urmet Domus;
- inappropriate maintenance;
- operation or storage out of the environmental range specified for the product;
- damage caused by electrical system anomalies, atmospheric conditions (e.g.lightening)or other caused external to the product;
- use in combination with accessories not marketed by Urmet Domus and/or parts not designed for product use.

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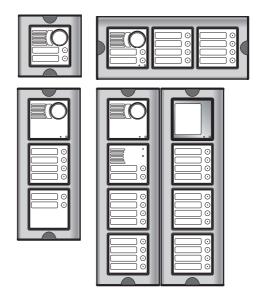
DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

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SINTHESI PANELS

The module consists of anodised aluminium profile modular elements which can be fitted in specific frames.
The innovative feature of this system consists in the possibility of vertical or horizontal installation. Furthermore, the flush-mounting boxes can be coupled by means of shims to create various panel types and configurations with a small number of components. The advantage of needing to stock fewer components is relevant for both wholesalers and installers.
Module installation is simple thanks to the pre-wired connections on the modules and system terminal boards on extractable carriages.
Sinthesi panels may be used in the following system types:
- 4+n wire door phone systems;
- 1+1 wire door phone systems;
- B&W and colour coax video door phone systems;
- B&W and colour 5-wire video door phone systems.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Front width of one row with frame:	**125 mm**
Front projection from wall:	**0.8 mm**
Flush mounting box depth:	**45 mm**
Front module finish:	**anodised aluminium**
Urmet brand:	**on module holder frame**
Button body:	**Ø 10.5 mm**
Total button stroke:	**3 mm**
Idle button stroke:	**1 mm**
Isolation voltage between contacts:	**50 V eff**
Max. button cut-off current:	**2 A eff**
Name tag dimensions:	
with single button:	**67 x 12.5 mm**
Tag and button light:	**LED**
Tag protection:	**self-extinguishing polycarbonate**
Max. wire cross-section area for button and light terminals:	**1.5 mm²**
Degree of protection:	**IP42 as per CEI 70.1 standard**
Corrosion:	**as per DIN 5342/64 standard**
Test duration:	**16 hours**
Test temperature range:	**35°C**

CONFIGURATION

The following installations are possible:
- **flush-mounting**
- **wall-mounting**

The system consists of the following parts:
- **modules**
- **flush-mounting box with fairleads**
- **module holder and frame**
- **accessories**

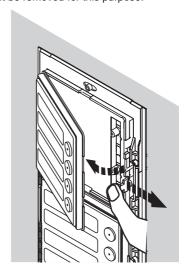
TECHNICAL SPECIFICATIONS OF THE MODULES

Assemble the various modules by fitting them in the specific columns in the module holders.
The following module versions are available:
- **Door unit set-up**
- **With buttons only**
- **Special (blank or repertory)**
- **With camera**

The modules have a natural anodised aluminium front panel.

Each module may be clipped onto the module holder for perfect alignment with the outer frame without the need for screws or tools. The buttons and name tags are backlit by LED in modules with call buttons.

The Sinthesi includes both single and double modules. Module dimensions are:
Single module: 90 x 90 mm
Double module: 90 x 180 mm (5-wire video door phone systems only)

The front part can be opened in all modules to facilitate operations. The frame must be removed for this purpose.

DOOR UNIT SET-UP MODULES

The following configurations of door unit set-up modules (i.e. modules without voice signal processing device) are available:
- without call buttons **Ref. 1145/20**
- with call buttons **Ref. 1145/21**
- with 2 call buttons (*) **Ref. 1145/22**
- with 1 double call button **Ref. 1145/32**
- with 2 double call buttons (*) **Ref. 1145/34**

(*) for use in 4+n wire door phone systems and coax video door phone systems only.

Ref. 1145/20

Ref. 1145/21

Ref. 1145/22

Ref. 1145/32

Ref. 1145/34

DESCRIPTION OF TERMINALS
Models Ref. 1145/21 - Ref. 1145/22

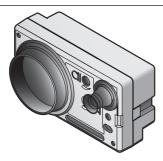
Terminal	Description
~12	Name tag lighting LED power
~0	Name tag lighting LED power
U2	Call button 2 (Ref. 1145/22 only)
U1	Call button
G/T	Call button common
G/T2	Call button contact 2 (Ref. 1145/22 only)

Models Ref. 1145/32 - Ref. 1145/34

- U1, U2 — Call buttons
- U3, U4 — Call buttons (Ref. 1145/34 only)
- G/T — Call button common
- ~12, ~0 — Name tag lighting LED power

Note: *obviously, module Ref. 1145/20 is without terminals because it contains no electrical devices.*

DOOR UNITS

DOOR UNIT FOR "4+N" WIRE SYSTEMS Ref. 1145/500

The amplified door unit Ref. 1145/500 is commonly fitted in Sinthesi modular panels in 4+n door phone systems, coax video door phone systems with colour camera or retrofitted systems with Kombi camera.
User call feedback is provided on the door unit by means of a LED: the LED lights up on the door unit set-up panel only if the door phone or video door phone has picked up the call.

The Ref. 1145/500 device is clipped onto the back on the module by means of specific clips. No tools are required for this operation. The door unit occupies the space of two buttons (half a module). Consequently, Ref. 1145/500 can be fitted in:

- door unit set-up module without buttons **Ref. 1145/20**
- door unit set-up module with 1 single button **Ref. 1145/21**
- door unit set-up module with 2 single buttons **Ref. 1145/22**
- door unit set-up module with 1 double button **Ref. 1145/32**
- door unit set-up module with 2 double buttons **Ref. 1145/34**

DESCRIPTION OF TERMINALS

- 1 A — Electronic voice out (from speaker to door phone)
- 1 — Traditional voice out (from speaker to door phone)
- + — Door unit power positive
- 2 — Voice in (from microphone to door phone)
- L — Call feedback LED in (connect to panel button common)
- - — Door unit power negative

IMPORTANT
Terminal "L" for call feedback cannot be used when the door unit is fitted in traditional call buttons (12V ~ on buzzer).

Note: *use terminal "1A" in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal "1" for Mod. 1130 door phones.*

DOOR UNIT FOR "1+1" WIRE SYSTEMS Ref. 1145/67

Fit door unit Ref. 1145/67 in the panel for speak-and-listen service in "1+1" wire door phone systems.
The Ref. 1145/67 device is clipped onto the back on the module by means of specific clips. No tools are required for this operation. The door unit occupies the space of three buttons (3/4th of a module). Consequently, Ref. 1145/67 only can be fitted in:

- door unit set-up module without buttons **Ref. 1145/20**
- door unit set-up module with 1 single button **Ref. 1145/21**
- door unit set-up module with 1 double button **Ref. 1145/32**

DESCRIPTION OF TERMINALS

- PS — Tone generator output
- 1/~ — Door unit power earth
- 5 — (Electrical lock emergency relay control)
- ~ — Door unit power
- 3 — Call buzzer for 1130 door phones
- 2 — Electrical lock control
- SN — Video power on control signal
- F — Voice
- 1 — Conversation privacy device earth
- C1 — Conversation privacy button 1
- 4 — Conversation privacy device power
- C2 — Conversation privacy button 2

AMPLIFICATION REGULATION

All door units have two integrated circuits for external and internal amplification and an electret microphone (transmitting unit).
Amplification in the two directions may be adjusted by means of two potentiometers which can be accessed after removing the extractable front panel.
Transmission levels are calibrated at the factory. For this reason, they should only be adjusted when absolutely necessary (e.g. to eliminate Larsen feedback). In these cases, turn the volume adjustment potentiometer outwards to avoid worsening acoustic balance.
To adjust external volume:

- turn the potentiometer shown clockwise to turn the volume up and anticlockwise to turn it down (🔈).

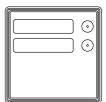
To adjust internal volume:

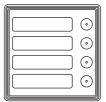
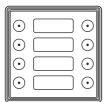
- turn the potentiometer shown clockwise to turn the volume up and anticlockwise to turn it down (◯).

BUTTON MODULES

The following module versions are available:

- **with 1 button** **Ref. 1145/11**

- **with 2 buttons** **Ref. 1145/12**

- **with 3 buttons** **Ref. 1145/13**

- **with 4 buttons** **Ref. 1145/14**

- **with 4 double buttons** **Ref. 1145/18**

DESCRIPTION OF TERMINALS

Models Ref. 1145/11, Ref. 1145/12, Ref. 1145/13 and Ref. 1145/14

Terminal	Description
~12	Button and name tag light LED power
~ 0	Button and name tag light LED power
U4	Call button 4 (Ref. 1145/14 only)
U3	Call button 3 (Ref. 1145/13 and Ref. 1145/14 only)
U2	Call button 2 (Ref. 1145/12, Ref. 1145/13 and Ref. 1145/14 only)
U1	Call button 1
G/T	Call button common

Terminal	Description
G/T2	Button contact 2 (°)
G/T3	Button contact 3 (°)
G/T4	Button contact 4 (°)

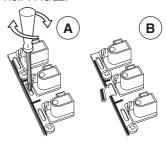
(°) these terminals are usually short-circuited and may be separated by the installer.

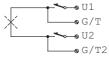
Models Ref. 1145/18

Terminal	Description
~12	Button and name tag light LED power
~ 0	Button and name tag light LED power
U8	Call button 8
U7	Call button 7
U6	Call button 6

Terminal	Description
U5	Call button 5
U4	Call button 4
U3	Call button 3
U2	Call button 2
U1	Call button 1
G/T	Call button common

CALL BUTTON CONTACT SEPARATION

Proceed as shown below to separate the G/T common contacts in button modules Ref. 1145/12, Ref. 1145/13 and Ref. 1145/14 and in door unit module Ref. 1145/22:

Either groups or buttons or single buttons may be isolated according to the point where the contacts are separated (dotted X in the drawings). Use the specific terminals according to the separation employed to connect the buttons.

Module with door unit set-up and 2 buttons (Ref. 1145/22)

U1
G/T
U2
G/T2
U3
G/T3
U4
G/T4

Button modules (Ref. 1145/12-/13-/14)

Modules with 2 and 3 buttons (Ref. 1145/12 and Ref. 1145/13) will be equipped only with the terminals referred to the buttons on the device. The button separation and connection methods are the same in all cases.

NAME TAG LIGHT

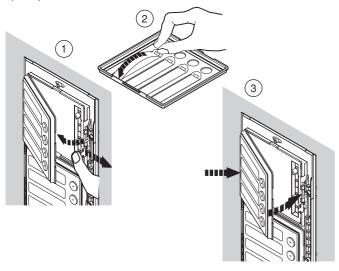
Name tag light bulb uptake is shown in the following table:

Ref.	Description	Power [W]
1145/11	Module with 1 button	1
1145/12	Module with 2 buttons	1
1145/13	Module with 3 buttons	2
1145/14	Module with 4 buttons	2
1145/21	Door unit module with 1 button	1
1145/22	Door unit module with 2 buttons	1
1145/50	Repertory/house number module	2
1745/21	50 Hz camera module with door unit and 1 button (B&W, 5 wires)	1
1745/22	50 Hz camera module with door unit and 2 buttons (B&W, 5 wires)	1
1745/81	50 Hz camera module with door unit and 1 button (B&W, coax)	1
1745/82	50 Hz camera module with door unit and 2 buttons (B&W, coax)	1

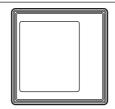
NAME TAG REPLACEMENT

There are different types of name tags:
- white: for provisional writing with a felt-tip pen (standard)
- anthracite: for engraving (standard)
- red: for staircase light button (door unit set-up modules only)
- blue: for panel customisation (optional: Ref. 1145/65 consists of blue name tags and frame headers).

ROSSI
Note: *The engraving side is marked by the letter **A** on anthracite name tags.*

Proceed as follows to insert the name tags in the specific housing:
1) Remove the frame (if installed) and remove the extractable front.
2) Fit the name tags.
3) Reposition the extractable front.

SPECIAL MODULES

There are two types of special modules:
- **repertory modules** **Ref. 1145/50**
- **blank modules** **Ref. 1145/59**

REPERTORY MODULES Ref. 1145/50

Repertory modules are normally used to indicate the house number or contain other information.

Power terminals ~0 and ~12 to light the unit via LEDs.

The procedure for fitting repertory tags is the same as that for the name tags.

BLANK MODULES Ref. 1145/59

This module is used to fill in spaces which are not used in modular applications as required.
The same module can be used for other applications, e.g. burglar alarms and automatic gates.

SINTHESI CAMERA UNIT MODULES

The following camera unit module versions are available:

Coax system versions:

with door unit, B&W, without buttons	**Ref. 1745/80**
with door unit, B&W, with 1 button	**Ref. 1745/81**
with door unit, B&W, with 2 buttons	**Ref. 1745/82**
without door unit, colour, without buttons	**Ref. 1745/40**
without door unit, B&W, without buttons	**Ref. 1745/70**
without door unit, B&W, without buttons 60 Hz (not available in Italy)	**Ref. 1745/79**

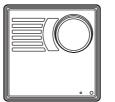
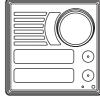
5-wire system versions:

with door unit, B&W, without buttons	**Ref. 1745/20**
with door unit, B&W, with 1 button	**Ref. 1745/21**
with door unit, B&W, with 2 buttons	**Ref. 1745/22**

TECHNICAL SPECIFICATIONS

Power voltage:	**18 Vdc**
Maximum uptake:	**250 mAdc**
Image sensor:	**1/3" CCD**
Lens:	**standard**
Shutter:	**standard**
Focus:	**fixed**
Minimum light for acceptable pictures:	**0.2 lux**
Coax video output:	**1 Vpp composite**
5-wire video output:	**1 Vpp differential**
Operating temperature range:	**from -10 to 50°C**

COAX CAMERA UNIT

B&W CAMERA UNIT MODULE WITH DOOR UNIT

Ref. 1745/80

Ref. 1745/81

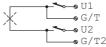
Ref. 1745/82

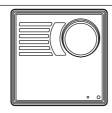
Camera units Ref. 1745/80/81/82 consist of a single Sinthesi module with camera, built-in door unit and either 0, 1 or 2 call buttons. These devices provide complete coax video door phone panels for systems with up to two users in the space of a single module.
Easy to fit and extract in the flush-mounting box, module features comprise:
- camera with built-in optics and shutter (fixed focus);
- possibility of adjusting camera lens vertically and horizontally;
- set of infrared LEDs for illuminating the subject;
- connection terminals;
- software and door unit;
- button and name tag lighting LEDs (where fitted).

DESCRIPTION OF TERMINALS

R1	Camera power negative
+TC	Camera power positive
V3	Video signal
V5	Video signal earth
~12	Button and name tag lighting LED power
~0	(Ref. 1745/81-/82 versions only)
G/T	Call button common (°) (Ref. 1745/81-/82 only)
G/T2	Call button common (°) (Ref. 1745/82 only)

U1	Column call button 1 (Ref. 1745/81-/82 only)
U2	Column call button 2 (Ref. 1745/82 only)
+	Door unit power positive
L	Call feedback LED input
2	Voice in (from microphone to door phone)
-	Door unit power negative
1	Traditional voice out (from speaker to door phone)
1A	Electronic voice out (from speaker to door phone)

(°) normally short-circuited, can be separated by the installer.

Module with door unit and 2 buttons (Ref. 1745/82)

B&W CAMERA UNIT MODULE WITHOUT DOOR UNIT

Particularly suitable for retrofitting old Kombi 825 systems. Two types of cameras without door unit are available:

- 50 Hz **Ref. 1745/70**
- 60 Hz (not available in Italy) **Ref. 1745/79**

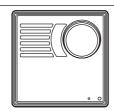
Both models can be fitted in Sinthesi panels and are provided with:

- B&W camera, fixed focus, with built-in optics and shutter;
- possibility of adjusting lens direction;
- infrared LED subject illumination.

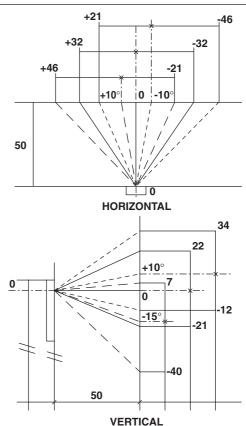
This module may also be used in 5-wire systems when a horizontal imaging development is required. Apply adapter Ref. 1742/13A to the camera in this case.

DESCRIPTION OF TERMINALS

R1	Camera power negative
+TC	Camera power positive in analogic system
V3/A	Video signal
V5/B	Video signal earth
T	Camera on control in digital system
R2	Camera power positive in digital system

COLOUR CAMERA UNIT MODULE WITHOUT DOOR UNIT Ref. 1745/40

This camera may be fitted either in coax systems or in 5-wire systems with a Ref. 1742/13A adapter.
The colour camera unit without door unit provides the modular features of the Sinthesi range.

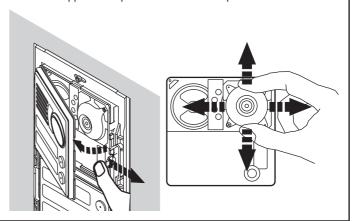
DESCRIPTION OF TERMINALS

R1	Camera power negative
+TC	Camera power positive
V3/A	Video signal
V5/B	Video signal earth
T	Use with digital call module
R2	Use with digital call module

IMAGING ANGLES

Measurements in centimetres

Pivoting angles of the camera with respect to central position are:
VERTICAL + 10 TO -15°
HORIZONTAL + 10 TO -10°

CAMERA LENS DIRECTION ADJUSTMENT

After installation, the camera direction can be adjusted according to the position of the framed subject. This operation may be carried out manually after removing the frame and the extractable front by adjusting the jointed mount directly from the front. The frame does not need to be tipped and special tools are not required.

VOLUME ADJUSTMENTS (Models Ref. 1745/80 - Ref. 1745/81 - Ref. 1745/82 only)

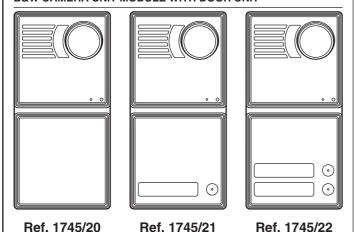
Volume can be adjusted both ways (internal and external) by means of two potentiometers which can be accessed after opening the push-button panel frame in modules with door unit.
To adjust external volume:
- turn the EXT. potentiometer clockwise to turn the volume up and anticlockwise to turn it down.

To adjust internal volume:
- turn the INT. potentiometer clockwise to turn the volume up and anticlockwise to turn it down.

Transmission level calibration is optimal. You are advised to adjust the volume only if required to avoid disrupting the acoustic balance using the potentiometer which adjusts the external volume only.

5-WIRE CAMERA UNITS

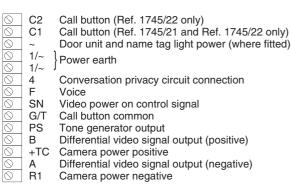
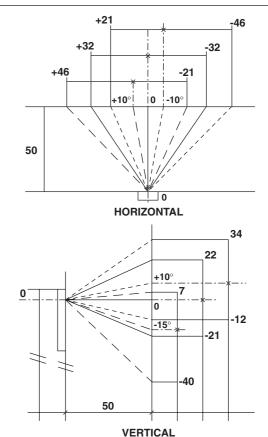
B&W CAMERA UNIT MODULE WITH DOOR UNIT

Ref. 1745/20 **Ref. 1745/21** **Ref. 1745/22**

The following three models are available:
- Camera unit without buttons Ref. 1745/20
- Camera unit with 1 button Ref. 1745/21
- Camera unit with 2 buttons Ref. 1745/22

All models are fitted in a two-module Sinthesi structure and are provided with:
- solid state CCD image sensor camera with fixed focus not interchangeable optics;
- possibility of adjusting camera lens direction;
- infrared LED subject illumination device;
- software and door unit;
- conversation privacy (for fitted call buttons only);
- name tag illumination LED (not including Ref. 1745/20).

These modules can be made for vertical configurations only.

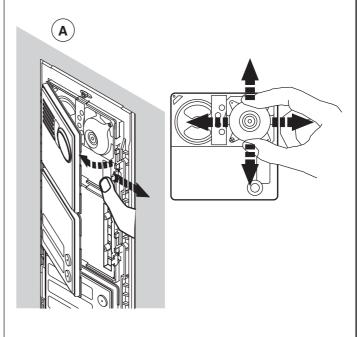
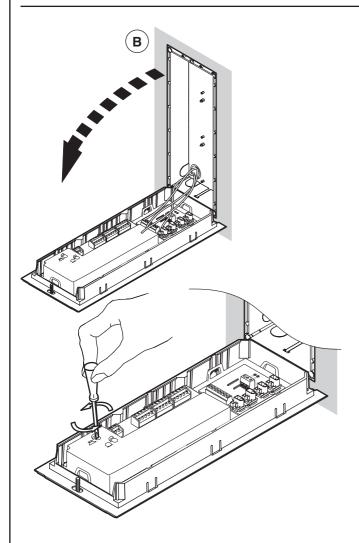
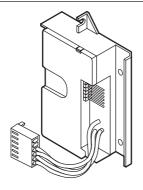
DESCRIPTION OF TERMINALS

Terminal	Description
C2	Call button (Ref. 1745/22 only)
C1	Call button (Ref. 1745/21 and Ref. 1745/22 only)
~	Door unit and name tag light power (where fitted)
1/~	Power earth
1/~	Power earth
4	Conversation privacy circuit connection
F	Voice
SN	Video power on control signal
G/T	Call button common
PS	Tone generator output
B	Differential video signal output (positive)
+TC	Camera power positive
A	Differential video signal output (negative)
R1	Camera power negative
5	(electrical lock emergency relay control)
SE	Electrical lock

IMAGING ANGLES

Measurements in centimetres

Rocking angles of the camera with respect to central position are:
VERTICAL +10 TO -15°
HORIZONTAL +10 TO -10°

CONTROLS AND ADJUSTMENTS

Camera direction (A) and volume (B) can be adjusted as coax camera module models.

CAMERA ADAPTER Ref. 1742/13A

The camera adapter is required for installation in the following types of systems:

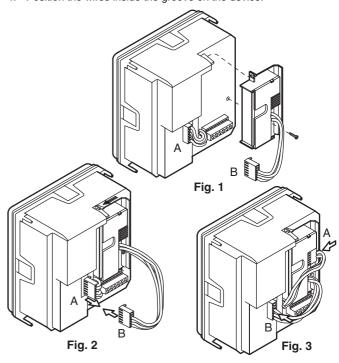
- “5-wire” system with colour camera;
- “5-wire” system with horizontal imaging unit development;
- “5-wire” system with 60 Hz camera (not available in Italy);
- Kombi Mod. 825 system retrofits;
- Bibus digital system.

The adapter Ref. 1742/13A must be used in combination with the following camera modules in the cases above:

- colour camera without door unit, without buttons **Ref. 1745/40**
- B&W camera without door unit, without buttons **Ref. 1745/70**
- B&W 60 Hz camera without door unit, without buttons (not available in Italy) **Ref. 1745/79**

The adapter transforms the composite video signal from the camera into two different video signals (A and B).

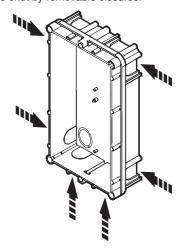
Adapter installation

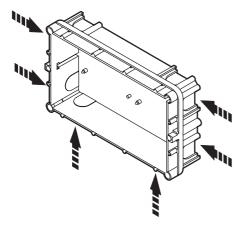
1. Fit the adapter by the side of the camera module and fasten it with the screw (Fig. 1).
2. Remove connector A from the camera module (Fig. 2).
3. Plug connector A in the device socket and connector B in the camera socket (Fig. 3).
4. Position the wires inside the groove on the device.

FLUSH-MOUNTING BOXES

For different versions of flush-mounting boxes for Sinthesi range products are provided according to the number of modules to be housed:

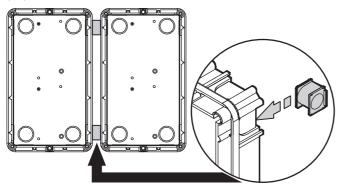
- for 1 module: **Ref. 1145/51**
- for 2 modules: **Ref. 1145/52**
- for 3 modules: **Ref. 1145/53**
- for 4 modules: **Ref. 1145/54**

The flushing depth for all boxes is 45 mm.

System wires lead into the boxes through the openings on the sides and bottom of the box.
All openings are shut by removable closures.

Two fairlead shims for joining the boxes are provided with flush-mounting boxes for 2, 3 and 4 modules.

The flush-mounting box must be turned by 90° for horizontal panel development.

Note: *rain hood versions, case and hood versions and gate pillar versions may be applied to vertical panel arrangements only.*

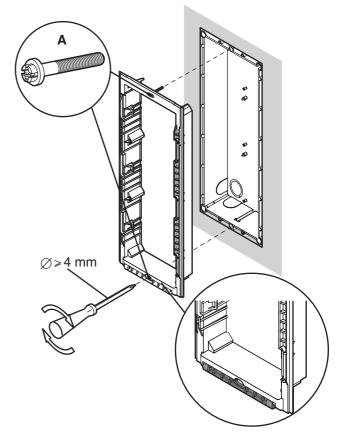
JOINING FLUSH-MOUNTING BOXES

Flush-mounting boxes may be joined by means of shims which double as fairleads.
Any number of flush-mounting boxes may be fitted if no accessories are used. In this case, the boxes may be joined either horizontally or vertically by means of fairlead shims. Conversely, up to three boxes can be joined along the longer sides with wall cover frames and rain hoods.
All shims are hollow to allow the passage of wires from one box to the other.

FRAMES AND MODULE HOLDERS

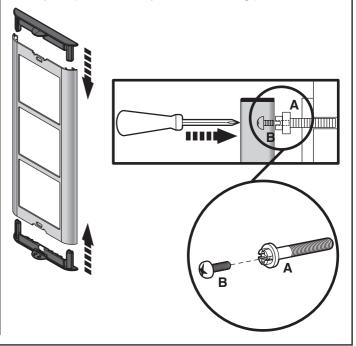
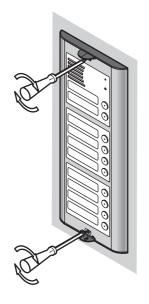
1, 2, 3 and 4 module versions of the module holders and frames are available.
The anodised aluminium frames are required for appearance and protection and must be applied at the end of the installation.
Module holders on the other hand are used for simple, immediate fastening of single and double Sinthesi modules.
A hinge is provided in the lower part of the frame to tip the modules and facilitate wiring and adjustments.
Available versions are:

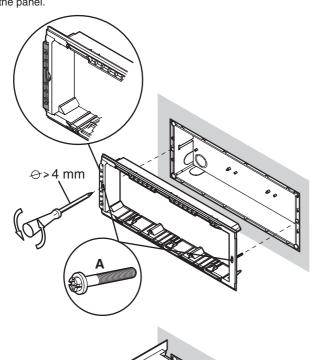
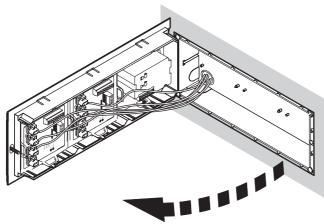
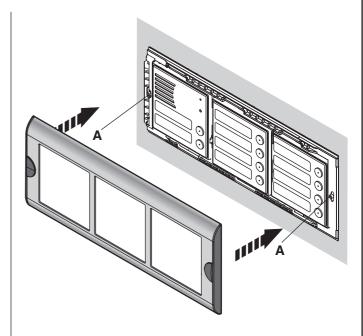
- for 1 module: **Ref. 1145/61**
- for 2 modules: **Ref. 1145/62**
- for 3 modules: **Ref. 1145/63**
- for 4 modules: **Ref. 1145/64**

MODULE HOLDER INSTALLATION

Arrange the module holder and fasten the lower screw after flush mounting the box. Raise the frame and fasten the upper screw.

FRAME INSTALLATION

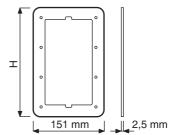
After installation, insert the heads on the frame and arrange the assembly on the module holder.
Adjust correct perpendicularity of the panel by means of the screws **A**.
Secure the frame by fastening the screws **B**.

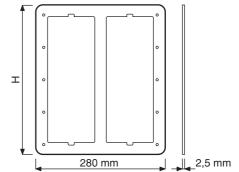
Note: *The blue headers Ref. 1145/65 may be used to customise the panel (the kit also comprises blue name tags).*

HORIZONTAL HOLDER AND FRAME INSTALLATION

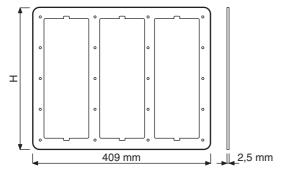
The procedure for horizontal installation of module holders and frames is similar to that described above.
The frame hinge will be found on a side instead of on the bottom and will consequently open horizontally. The modules are fastened to the frame in the same way, regardless of the direction of development of the panel.

FLUSH-MOUNTED PANEL ACCESSORIES

WALL COVER FRAME

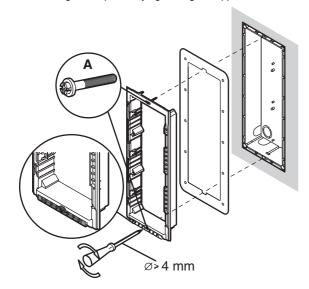
These frames are used to conceal irregularities of the wall in the flush mounting area surrounding the panel; insert the cover frames between modules and wall. Rubber seals prevent water leakage.
The following anodised aluminium frames are provided:

- for 1 module: **Ref. 1145/711**
- for 2 modules: **Ref. 1145/712**
- for 3 modules: **Ref. 1145/713**
- for 4 modules: **Ref. 1145/714**

H is 148, 238, 328 and 418 mm for 1, 2, 3 and 4 module versions, respectively.

- for 4 modules (2 frames for 2 joined modules) **Ref. 1145/724**
- for 6 modules (2 frames for 3 joined modules) **Ref. 1145/726**
- for 8 modules (2 frames for 4 joined modules) **Ref. 1145/728**

H is 238, 328 and 418 mm for 2, 3 and 4 module versions, respectively.

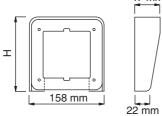
- for 9 modules (3 frames for 3 joined modules) **Ref. 1145/739**
- for 12 modules (3 frames for 4 joined modules) **Ref. 1145/732**

H is 328 and 418 mm for 3 and 4 module versions, respectively.

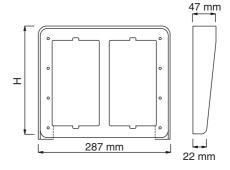
WALL FRAME COVER INSTALLATION

Embed the flush mounting box in the wall, position the wall cover frame and fasten the module holder lower screw.
Frame fastening is completed by tightening the upper frame screw last.

For horizontal development of the panels, simply turn the wall cover frame by 90° to adapt it to the flush-mounting box.

RAIN HOOD WITH WALL COVER FRAME

The rain hoods may be only applied to vertical panels arrangements. They are useful to make the panel installation weatherproof.

The following versions of hoods to be fitted between modules and wall are provided:
- for 1 module: **Ref. 1145/611**
- for 2 modules: **Ref. 1145/612**
- for 3 modules: **Ref. 1145/613**
- for 4 modules: **Ref. 1145/614**

H is 151, 241, 331 and 421 mm for 1, 2, 3 and 4 module versions, respectively.

- for 4 modules (2 frames for 2 joined modules) **Ref. 1145/624**
- for 6 modules (2 frames for 3 joined modules) **Ref. 1145/626**
- for 8 modules (2 frames for 4 joined modules) **Ref. 1145/628**

H is 241, 331 and 421 mm for 2, 3 and 4 module versions, respectively.

- for 9 modules (3 frames for 3 joined modules) **Ref. 1145/639**
- for 12 modules (3 frames for 4 joined modules) **Ref. 1145/632**

47 mm

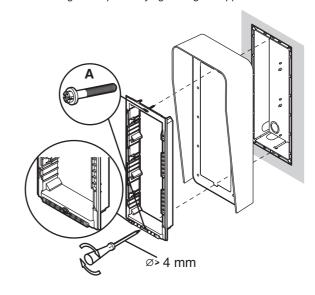
H

416 mm

22 mm

H is 331 and 421 mm for 3 and 4 module versions, respectively.

RAIN HOOD INSTALLATION

Embed the flush mounting box in the wall, position the waterproof hood and fasten the module holder lower screw.
Hood fastening is completed by tightening the upper frame screw last.

WALL-MOUNTED PANEL ACCESSORIES

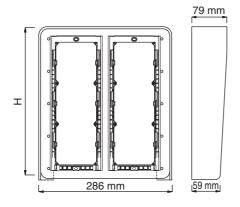
CASE AND HOOD WITH FRAME AND MODULE HOLDER

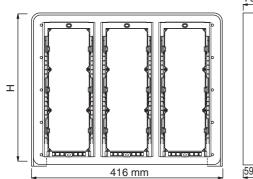
Wall-mounted installation is possible for vertical panels arrangements only.
Cases and hoods protect the panel from the weather and may be used for installation on walls without flush-mounted parts.
The following versions are provided (with frame and module holder):

- for 1 module: **Ref. 1145/311**
- for 2 modules: **Ref. 1145/312**
- for 3 modules: **Ref. 1145/313**
- for 4 modules: **Ref. 1145/314**

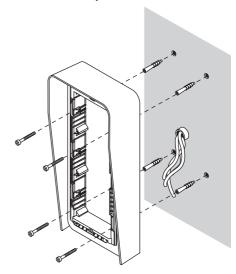
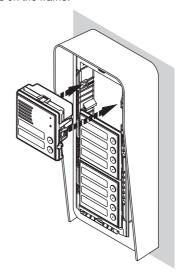
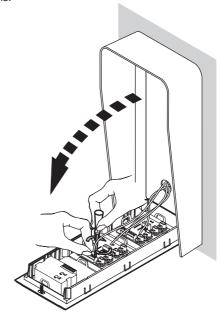
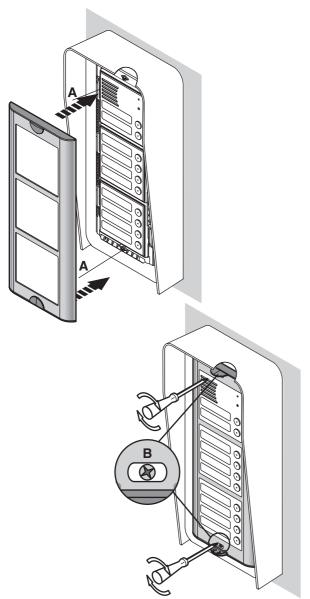
79 mm
H
157 mm
59 mm

H is 151, 241, 331 and 421 mm for 1, 2, 3 and 4 module versions, respectively.

- for 4 modules (2 frames for 2 joined modules) **Ref. 1145/324**
- for 6 modules (2 frames for 3 joined modules) **Ref. 1145/326**
- for 8 modules (2 frames for 4 joined modules) **Ref. 1145/328**

H is 241, 331 and 421 mm for 2, 3 and 4 module versions, respectively.

- for 9 modules (3 frames for 3 joined modules) **Ref. 1145/339**
- for 12 modules (3 frames for 4 joined modules) **Ref. 1145/332**

H is 331 and 421 mm for 3 and 4 module versions, respectively.

CASE AND HOOD INSTALLATION

Fasten the hood to the wall by means of four bolts.

Fit the modules on the frame.

Loosen the upper frame screw, open the box and make the electrical connections.

Fit the frame.

GATE SEMI-FLUSHED PANEL ACCESSORIES

CASE AND HOOD FOR SEMI-FLUSHED GATE INSTALLATION WITH FRAME AND MODULE HOLDER

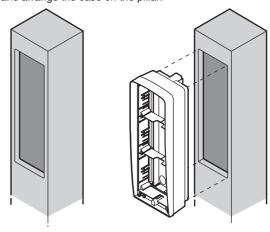
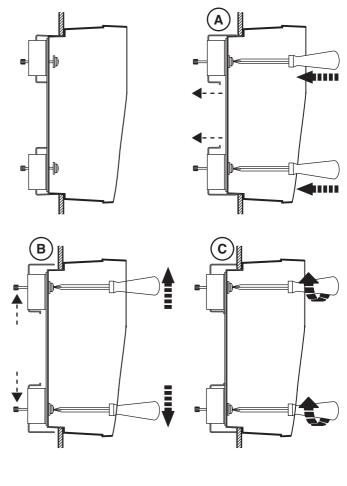
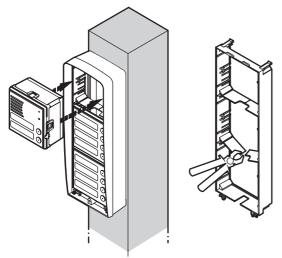
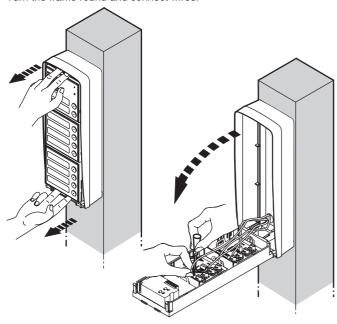
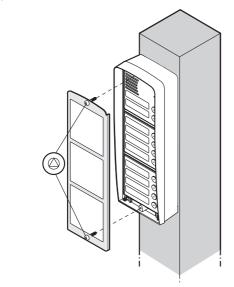
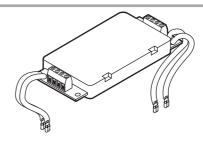
Cases and hood for gate pillar installation are suitable for vertical installation on a gate pillar.
Semi-flushed cases with module holder and front aluminium frame may be used for this type of installation.
Versions are:

- for 2 modules: **Ref. 1145/342**
- for 3 modules: **Ref. 1145/343**

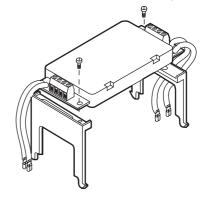
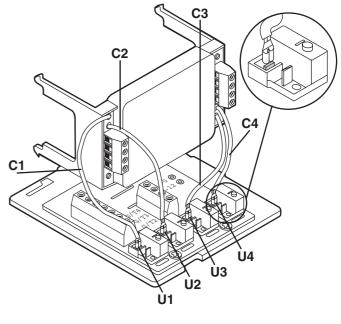
Gate pillar installation dimensions are:

2 module semi-flushed box:	**h 215 x l 104 x d 93.2 mm**
3 module semi-flushed box:	**h 305.3 x l 104 x d 93.2 mm**
maximum projection from pillar:	**76 mm**
flush hole width in pillar:	**98 mm**

GATE PILLAR INSTALLATION

Drill a hole dimensioned as shown on the provided template in the pillar and arrange the case on the pillar.

To fasten the case:
a. Push the screw to the bottom of the box with a screwdriver.
b. Push the screw outwards with a screwdriver.
c. Fasten the screw.

Fit the modules on the frame.
WARNING: Eliminate a crossbar with cutters to fit double modules.

Turn the frame round and connect wires.

Fit the panel on the frame.

CONVERSATION PRIVACY DEVICE FOR “1+1” WIRE SYSTEMS Ref. 1145/74

The device is used for conversation privacy function in 1+1 door phone systems and 5-wire video door phone systems only.
Each device may be fitted in a 4-button module with the two screws provided as shown below. Connect wires C1, C2, C3 and C4 to terminals U1, U2, U3 and U4 of the button module; use the terminals on the device for connecting to the system.
The device will only be partially used in the case of 1, 2 and 3 button modules.
The number of boards consequently depends on the number of buttons (from 1 to 4) on the panel.
When counting the number of boards required, remember that door unit Ref. 1145/67 and camera modules Ref. 1745/21 and Ref. 1745/22 are already equipped with conversation privacy devices for two users.

CONVERSATION PRIVACY DEVICE INSERTION

Fasten the devices to the two shims with the respective screws.

Connect the wires to each call button.

Apply the shims and conversation privacy device to the module.

CONVERSATION PRIVACY DEVICE FOR “4+n” WIRE SYSTEMS Ref. 5330/60

This device is used for conversation privacy function in 4+n door phone systems and coax video door phone systems, only.
Fit device Ref. 1131/5 in each 1131 or 1132 door phone for the function; fit the video door phones on the specific conversation privacy bracket (Ref. 1202/95 for Winflat+ or Ref. 1704/95 for Sentry+).

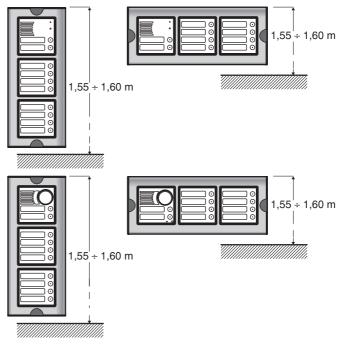
The device shuts down privacy from previous calls and consequently ensures total privacy also if a door phone is forgotten off hook.

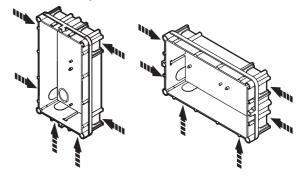
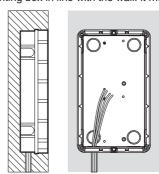
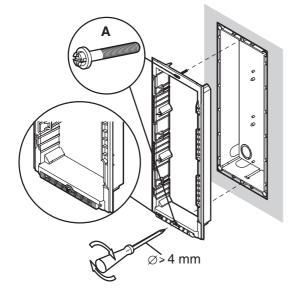
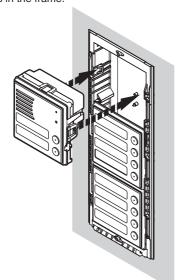
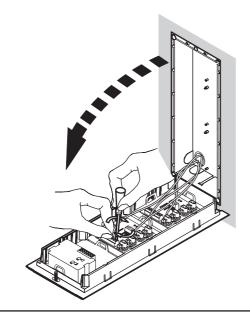
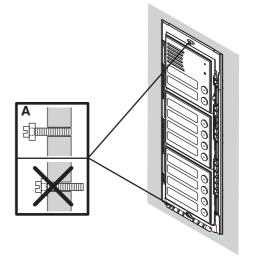
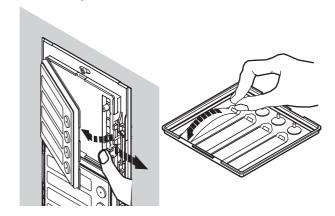
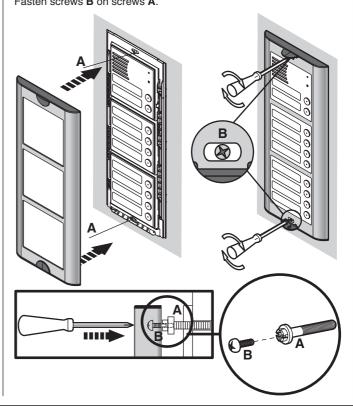
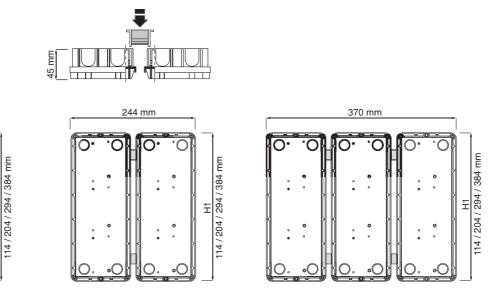
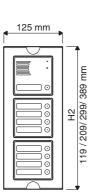
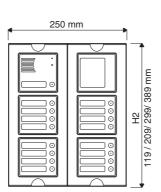
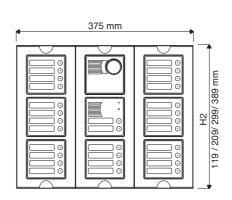
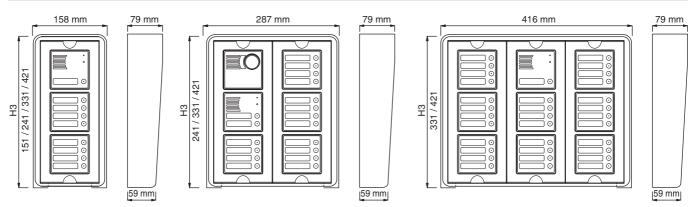
All devices are normally deactivated (no conversation is heard when the handset is picked up): only the device called by the panel may start a conversation with the caller; no other device can take or intercept the call.

The device must be fastened to the flush-mounting box or case with hood with two screws.
Considering its size, the device must be fitted in button modules or special modules.

SINTHESI PANEL INSTALLATION

FLUSH-MOUNTED VERSION

You are advised to install the modules at the heights shown below according to the required system configuration.

In any case, consider the height shown in the figure for fastening the camera for correct installation of complex arrangement with several modules. The height refers to the door unit in door phone systems.
The procedure for horizontal panel development is the same at that shown below for vertical development.
Obviously, in this case, the boxes, module holders, modules and frames must be turned by 90°.

Arrange the hole (on the bottom or on the sides) for letting through the connection wires before closing the flush-mounting box (single or joined to other boxes).

Fit the flush mounting box in line with the wall: it must not project.

Fit the module holder frame.

Fit the modules in the frame.

Turn the frame round and connect wires.

Close the frame and fasten the screws **A** without tightening them.

Fit the name tags.

Position the panel on the frame.
Adjust correct perpendicularity of the panel.
Fasten screws **B** on screws **A**.

FLUSH-MOUNTED VERSION

Note: H1= 114, 204, 294, 384 indicates flush mounting height and H2= 119, 209, 299, 389 indicates to total height relative to 1, 2, 3 and 4 module versions.

WALL-MOUNTED VERSION

Note: H3 referred to the total height may differ according to the number of modules that the case may contain.

SINTHESI PANELS
4+n WIRE DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Button modules	Repertory module	-	-	-	-	1145/13	-
	Door unit modules		1145/21		1145/22		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/51		1145/51		1145/52	
	Module holders and frames		1145/61		1145/61		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/711		1145/711		1145/712	
	Rain hood with wall cover frame (°)		1145/611		1145/611		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/311		1145/311		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		1145/342	

			3		4		4	
	Button modules	Repertory module	1145/13	-	1145/14	-	1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		-		1145/612		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/312		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/342		-	

			5		5		6	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14	-
	Door unit modules		1145/21		1145/21		1145/22	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		1145/612		-		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/312		-		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/342		-		1145/342	

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SINTHESI PANELS
4+n WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			6		7		7	
	Button modules	Repertory module	1145/14	-	1145/14 + 1145/13	-	1145/13 + 1145/14	-
	Door unit modules		1145/22		1145/20		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/53		1145/53	
	Module holders and frames		1145/62		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			8		8		9	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Door unit modules		1145/20		1145/20		1145/21	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/343		-		1145/343	

			9		10		10	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Door unit modules		1145/21		1145/22		1145/22	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

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SINTHESI PANELS
4+n WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			11		11		12	
	Button modules	Repertory module	1145/13 + 2 x 1145/14	-	1145/13 + 2 x 1145/14	-	3 x 1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			12		13		13	
	Button modules	Repertory module	3 x 1145/14	-	3 x 1145/14	-	3 x 1145/14	-
	Door unit modules		1145/20		1145/21		1145/21	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			14		14		15	
	Button modules	Repertory module	3 x 1145/14	-	3 x 1145/14	-	1145/13 + 3 x 1145/14	1145/50
	Door unit modules		1145/22		1145/22		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		2 x 1145/53	
	Module holders and frames		1145/64		1145/64		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/726	
	Rain hood with wall cover frame (°)		1145/614		-		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
4+n WIRE DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			16		17		18	
	Button modules	Repertory module	4 x 1145/14	1145/50	4 x 1145/14	1145/50	4 x 1145/14	1145/50
	Door unit modules		1145/20		1145/21		1145/22	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			19		20		21	
	Button modules	Repertory module	4 x 1145/14 + 1145/13	-	5 x 1145/14	-	5 x 1145/14	-
	Door unit modules		1145/20		1145/20		1145/21	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			22		23		24	
	Button modules	Repertory module	5 x 1145/14	-	1145/13 + 5 x 1145/14	1145/50	6 x 1145/14	1145/50
	Door unit modules		1145/22		1145/20		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/63		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/626		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			25		26		28	
	Button modules	Repertory module	6 x 1145/14	1145/50	6 x 1145/14	1145/50	7 x 1145/14	-
	Door unit modules		1145/21		1145/22		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			30		31		32	
	Button modules	Repertory module	7 x 1145/14	-	7 x 1145/14 + 1145/13	-	8 x 1145/14	-
	Door unit modules		1145/22		1145/20		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		3 x 1145/53		3 x 1145/53	
	Module holders and frames		2 x 1145/64		3 x 1145/63		3 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/739		1145/739	
	Rain hood with wall cover frame (°)		1145/628		1145/639		1145/639	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/339		1145/339	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			33		34		38	
	Button modules	Repertory module	8 x 1145/14	-	8 x 1145/14	-	7 x 1145/14 + 3 x 1145/13	1145/50
	Door unit modules		1145/21		1145/22		1145/21	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/53		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/63		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/739		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/639		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/339		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
4+n WIRE DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			40		42		44	
	Button modules	Repertory module	10 x 1145/14	1145/50	10 x 1145/14	1145/50	11 x 1145/14	-
	Door unit modules		1145/20		1145/22		1145/20	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/64		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/632		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			46	
	Button modules	Repertory module	11 x 1145/14	-
	Door unit modules		1145/22	
	Door unit		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54	
	Module holders and frames		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732	
	Rain hood with wall cover frame (°)		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-	

SINTHESI PANELS
1+1 WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		2	
	Button modules	Repertory module	-	-	1145/12	-	1145/12	-
	Door unit modules		1145/21		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		-		1145/74		1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/51		1145/52		1145/52	
	Module holders and frames		1145/61		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/711		1145/712		1145/712	
	Rain hood with wall cover frame (°)		1145/611		1145/612		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/311		1145/312		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/342		1145/342	

			3		3		4	
	Button modules	Repertory module	1145/13	-	1145/13	-	1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		1145/74		1145/74		1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		1145/612		-		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/312		-		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/342		-		1145/342	

			4		5		6	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/12 + 1145/14	-
	Door unit modules		1145/20		1145/21		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		1145/74		1145/74		2 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/53	
	Module holders and frames		1145/62		1145/62		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/713	
	Rain hood with wall cover frame (°)		-		1145/612		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/312		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/342		1145/343	

SINTHESI PANELS
1+1 WIRE DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			6		7		7	
	Button modules	Repertory module	1145/12 + 1145/14	-	1145/13 + 1145/14	-	1145/13 + 1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		2 x 1145/74		2 x 1145/74		2 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			8		8		9	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Door unit modules		1145/20		1145/20		1145/21	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		2 x 1145/74		2 x 1145/74		2 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/343		-		1145/343	

			9		10		10	
	Button modules	Repertory module	2 x 1145/14	-	1145/12 + 2 x 1145/14	-	1145/12 + 2 x 1145/14	-
	Door unit modules		1145/21		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		2 x 1145/74		3 x 1145/74		3 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/54		1145/54	
	Module holders and frames		1145/63		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
1+1 WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			11		11		12	
	Button modules	Repertory module	1145/13 + 2 x 1145/14	-	1145/13 + 2 x 1145/14	-	3 x 1145/12 + 1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		3 x 1145/74		3 x 1145/74		3 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			12		13		13	
	Button modules	Repertory module	3 x 1145/14	-	3 x 1145/14	-	3 x 1145/14	-
	Door unit modules		1145/20		1145/21		1145/21	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		3 x 1145/74		3 x 1145/74		3 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			14		15		16	
	Button modules	Repertory module	3 x 1145/14 + 1145/12	1145/50	3 x 1145/14 + 1145/13	1145/50	4 x 1145/14	1145/50
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		4 x 1145/74		4 x 1145/74		4 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
1+1 WIRE DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			17		18		19	
	Button modules	Repertory module	4 x 1145/14	1145/50	4 x 1145/14 + 1145/12	-	1145/13 + 1145/14	-
	Door unit modules		1145/21		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		4 x 1145/74		5 x 1145/74		5 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			20		21		23	
	Button modules	Repertory module	5 x 1145/14	-	5 x 1145/14	-	5 x 1145/14 + 1145/13	1145/50
	Door unit modules		145/20		1145/21		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		5 x 1145/74		5 x 1145/74		6 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/54	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/728	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			24		25		26	
	Button modules	Repertory module	6 x 1145/14	1145/50	6 x 1145/14	1145/50	6 x 1145/14 + 1145/12	-
	Door unit modules		145/20		1145/21		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		6 x 1145/74		6 x 1145/74		7 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			28		30		32	
	Button modules	Repertory module	7 x 1145/14	-	7 x 1145/14 + 1145/12	-	8 x 1145/14	-
	Door unit modules		1145/20		1145/20		1145/20	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		7 x 1145/74		8 x 1145/74		8 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		3 x 1145/53		3 x 1145/53	
	Module holders and frames		2 x 1145/64		3 x 1145/63		3 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/739		1145/739	
	Rain hood with wall cover frame (°)		1145/628		1145/639		1145/639	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/339		1145/339	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			33		40		41	
	Button modules	Repertory module	8 x 1145/14	-	10 x 1145/14	1145/50	10 x 1145/14	1145/50
	Door unit modules		1145/21		1145/20		1145/21	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		8 x 1145/74		10 x 1145/74		10 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			44		45	
	Button modules	Repertory module	11 x 1145/14	-	11 x 1145/14	-
	Door unit modules		1145/20		1145/21	
	Door unit		1145/67		1145/67	
	Conversation privacy device		11 x 1145/74		11 x 1145/74	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Button modules	Repertory module	-	-	-	-	1145/13	-
	Camera modules and door unit		1745/81		1745/82		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		1145/51		1145/51		1145/52	
	Module holders and frames		1145/61		1145/61		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/711		1145/711		1145/712	
	Rain hood with wall cover frame (°)		1145/611		1145/611		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/311		1145/311		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		1145/342	

			3		4		4	
	Button modules	Repertory module	1145/13	-	1145/14	-	1145/14	-
	Camera modules and door unit		1745/80		1745/80		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		-		1145/612		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/312		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/342		-	

			5		5		6	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14	-
	Camera modules and door unit		1745/81		1745/81		1745/82	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		1145/612		-		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/312		-		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/342		-		1145/342	

SINTHESI PANELS
B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			6		7		7	
	Button modules	Repertory module	1145/14	-	1145/14 + 1145/13	-	1145/14 + 1145/13	-
	Camera modules and door unit		1745/82		1745/80		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/53		1145/53	
	Module holders and frames		1145/62		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			8		8		9	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Camera modules and door unit		1745/80		1745/80		1745/81	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/343		-		1145/343	

			9		10		10	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Camera modules and door unit		1745/81		1745/82		1745/82	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

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B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			11		11		12	
	Button modules	Repertory module	2 x 1145/14 + 1145/13	-	2 x 1145/14 + 1145/13	-	3 x 1145/14	-
	Camera modules and door unit		1745/80		1745/80		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			12		13		13	
	Button modules	Repertory module	3 x 1145/14	-	3 x 1145/14	-	3 x 1145/14	-
	Camera modules and door unit		1745/80		1745/81		1745/81	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			14		14		15	
	Button modules	Repertory module	3 x 1145/14	-	3 x 1145/14	-	3 x 1145/14 + 1145/13	1145/50
	Camera modules and door unit		1745/82		1745/82		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		2 x 1145/53	
	Module holders and frames		1145/64		1145/64		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/726	
	Rain hood with wall cover frame (°)		1145/614		-		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			16		17		18	
	Button modules	Repertory module	4 x 1145/14	1145/50	4 x 1145/14	1145/50	4 x 1145/14	1145/50
	Camera modules and door unit		1745/80		1745/81		1745/82	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			19		20		21	
	Button modules	Repertory module	4 x 1145/14 + 1145/13	-	5 x 1145/14	-	5 x 1145/14	-
	Camera modules and door unit		1745/80		1745/80		1745/81	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			22		23		24	
	Button modules	Repertory module	5 x 1145/14	-	5 x 1145/14 + 1145/13	1145/50	6 x 1145/14	1145/50
	Camera modules and door unit		1745/82		1745/80		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/63		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/626		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			25		26		28	
	Button modules	Repertory module	6 x 1145/14	1145/50	6 x 1145/14	1145/50	7 x 1145/14	-
	Camera modules and door unit		1745/81		1745/82		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			30		32		33	
	Button modules	Repertory module	7 x 1145/14	-	8 x 1145/14	-	8 x 1145/14	-
	Camera modules and door unit		1745/82		1745/80		1745/81	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		3 x 1145/53		3 x 1145/53	
	Module holders and frames		2 x 1145/64		3 x 1145/63		3 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/739		1145/739	
	Rain hood with wall cover frame (°)		1145/628		1145/639		1145/639	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/339		1145/339	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			34		38		40	
	Button modules	Repertory module	8 x 1145/14	-	9 x 1145/14 + 1145/12	1145/50	10 x 1145/14	1145/50
	Camera modules and door unit		1745/82		1745/80		1745/80	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			42		44		46	
	Button modules	Repertory module	10 x 1145/14	1145/50	11 x 1145/14	-	11 x 1145/14	-
	Camera modules and door unit		1745/82		1745/80		1745/82	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/64		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/632		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		1		2	
	Button modules	Repertory module	-	-	-	-	-	-
	Camera modules and door unit		1745/21		1745/70		1745/22	
	Door unit module		-		1145/21		-	
	Door unit		-		1145/67		-	
	Conversation privacy device		-		-		-	
	Camera adapter		-		1742/13A		-	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/52	
	Module holders and frames		1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)		1145/612		-		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/312		-		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/342		-		1145/342	

			2		3		3	
	Button modules	Repertory module	1145/12	-	1145/13	-	1145/13	-
	Camera modules and door unit		1745/70		1745/20		1745/70	
	Door unit module		1145/20		-		1145/20	
	Door unit		1145/67		-		1145/67	
	Conversation privacy device		1145/74		1145/74		1145/74	
	Camera adapter		1742/13A		-		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			4		4		5	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14	-
	Camera modules and door unit		1745/20		1745/70		1745/21	
	Door unit module		-		1145/20		-	
	Door unit		-		1145/67		-	
	Conversation privacy device		1145/74		1145/74		1145/74	
	Camera adapter		-		1742/13A		-	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/343		-		1145/343	

SINTHESI PANELS
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			5		6		6	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14 + 1145/12	-
	Camera modules and door unit		1745/70		1745/22		1745/70	
	Door unit module		1145/21		-		1145/20	
	Door unit		1145/67		-		1145/67	
	Conversation privacy device		1145/74		1145/74		2 x 1145/74	
	Camera adapter		1742/13A		-		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/54	
	Module holders and frames		1145/63		1145/63		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/714	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			7		7		8	
	Button modules	Repertory module	1145/14 + 1145/13	-	1145/14 + 1145/13	-	2 x 1145/14	-
	Camera modules and door unit		1745/20		1745/70		1745/20	
	Door unit module		-		1145/20		-	
	Door unit		-		1145/67		-	
	Conversation privacy device		2 x 1145/74		2 x 1145/74		2 x 1145/74	
	Camera adapter		-		1742/13A		-	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		8		9		9	
	Button modules / Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Camera modules and door unit	1745/70		1745/21		1745/70	
	Door unit module	1145/20		-		1145/21	
	Door unit	1145/67		-		1145/67	
	Conversation privacy device	2 x 1145/74		2 x 1145/74		2 x 1145/74	
	Camera adapter	1742/13A		-		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box	1145/54		1145/54		1145/54	
FLUSH MOUNTED (#)	Module holders and frames	1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	1145/714		1145/714		1145/714	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders	-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders	-		-		-	

		10		11		12	
	Button modules / Repertory module	2 x 1145/14	-	2 x 1145/14 + 1145/13	1145/50	3 x 1145/14	1145/50
	Camera modules and door unit	1745/22		1745/20		1745/20	
	Door unit module	-		-		-	
	Door unit	-		-		-	
	Conversation privacy device	2 x 1145/74		3 x 1145/74		3 x 1145/74	
	Camera adapter	-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box	1145/54		2 x 1145/53		2 x 1145/53	
FLUSH MOUNTED (#)	Module holders and frames	1145/64		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	1145/714		1145/726		1145/726	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	1145/614		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders	1145/314		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders	-		-		-	

SINTHESI PANELS
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			13		14		15	
	Button modules	Repertory module	3 x 1145/14	1145/50	3 x 1145/14	1145/50	3 x 1145/14 + 1145/13	-
	Camera modules and door unit		1745/21		1745/22		1745/20	
	Door unit module		-		-		-	
	Door unit		-		-		-	
	Conversation privacy device		3 x 1145/74		3 x 1145/74		4 x 1145/74	
	Camera adapter		-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			16		17		18	
	Button modules	Repertory module	4 x 1145/14	-	4 x 1145/14	-	4 x 1145/14	-
	Camera modules and door unit		1745/20		1745/21		1745/22	
	Door unit module		-		-		-	
	Door unit		-		-		-	
	Conversation privacy device		4 x 1145/74		4 x 1145/74		4 x 1145/74	
	Camera adapter		-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

19

20

21

			19		20		21	
	Button modules	Repertory module	4 x 1145/14 + 1145/13	1145/50	5 x 1145/14	1145/50	5 x 1145/14	1145/50
	Camera modules and door unit		1745/20		1745/20		1745/21	
	Door unit module		-		-		-	
	Door unit		-		-		-	
	Conversation privacy device		5 x 1145/74		5 x 1145/74		5 x 1145/74	
	Camera adapter		-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

22

24

26

			22		24		26	
	Button modules	Repertory module	5 x 1145/14	1145/50	6 x 1145/14	-	6 x 1145/14	-
	Camera modules and door unit		1745/22		1745/20		1745/22	
	Door unit module		-		-		-	
	Door unit		-		-		-	
	Conversation privacy device		5 x 1145/74		6 x 1145/74		6 x 1145/74	
	Camera adapter		-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			30		36		42	
	Button modules	Repertory module	7 x 1145/14	-	9 x 1145/14	1145/50	10 x 1145/14	-
	Camera modules and door unit		1745/22		1745/20		1745/22	
	Door unit module		-		-		-	
	Door unit		-		-		-	
	Conversation privacy device		7 x 1145/74		9 x 1145/74		10 x 1145/74	
	Camera adapter		-		-		-	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
COLOUR COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		1		1		2	
	Button modules / Repertory module	-	-	-	-	-	-
	Door unit module	1145/21		1145/21		1145/22	
	Camera unit modules	1745/40		1745/40		1745/40	
	Door unit	1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box	1145/52		1145/52		1145/52	
	Module holders and frames	1145/62		1145/62		1145/62	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	1145/712		1145/712		1145/712	
	Rain hood with wall cover frame (°)	1145/612		-		1145/612	
WALL MOUNTED(#)	Case with hood, frame and module holders	1145/312		-		1145/312	
GATE PILLAR(#)	Case with hood, frame and module holders	1145/342		-		1145/342	

		2		3		3	
	Button modules / Repertory module	-	-	1145/13	-	1145/13	-
	Door unit module	1145/22		1145/20		1145/20	
	Camera unit modules	1745/40		1745/40		1745/40	
	Door unit	1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box	1145/52		1145/53		1145/53	
	Module holders and frames	1145/62		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	1145/712		1145/713		1145/713	
	Rain hood with wall cover frame (°)	-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders	-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders	-		1145/343		-	

		4		4		5	
	Button modules / Repertory module	1145/14	-	1145/14	-	1145/14	-
	Door unit module	1145/20		1145/20		1145/21	
	Camera unit modules	1745/40		1745/40		1745/40	
	Door unit	1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box	1145/53		1145/53		1145/53	
	Module holders and frames	1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)	1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders	1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders	1145/343		-		1145/343	

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SINTHESI PANELS
COLOUR COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			5		6		6	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14	-
	Door unit module		1145/21		1145/22		1145/22	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

			7		7		8	
	Button modules	Repertory module	1145/14 + 1145/13	-	1145/14 + 1145/13	-	2 x 1145/14	-
	Door unit module		1145/20		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			8		9		9	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Door unit module		1145/20		1145/21		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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COLOUR COAX VIDEO DOOR PHONE SYSTEMS

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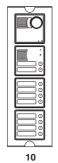
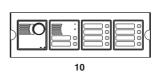
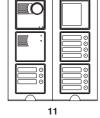
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) in alternativa
(#) in alternativa

			10		10		11	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14 + 1145/13	1145/50
	Door unit module		1145/22		1145/22		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		2 x 1145/53	
	Module holders and frames		1145/64		1145/64		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/726	
	Rain hood with wall cover frame (°)		1145/614		-		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			12		13		14	
	Button modules	Repertory module	3 x 1145/14	1145/50	3 x 1145/14	1145/50	3 x 1145/14	1145/50
	Door unit module		1145/20		1145/21		1145/22	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			15		16		17	
	Button modules	Repertory module	3 x 1145/14 + 1145/13	-	4 x 1145/14	-	4 x 1145/14	-
	Door unit module		1145/20		1145/20		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			18		19		20	
	Button modules	Repertory module	4 x 1145/14	-	4 x 1145/14 + 1145/13	1145/50	5 x 1145/14	1145/50
	Door unit module		1145/22		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/63		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/626		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			21		22		23	
	Button modules	Repertory module	5 x 1145/14	1145/50	5 x 1145/14	1145/50	5 x 1145/14 + 1145/13	-
	Door unit module		1145/21		1145/22		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
COLOUR COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			24		25		26	
	Button modules	Repertory module	6 x 1145/14	-	6 x 1145/14	-	6 x 1145/14	-
	Door unit module		1145/20		1145/21		1145/22	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			28		30		36	
	Button modules	Repertory module	7 x 1145/14	-	7 x 1145/14	-	9 x 1145/14	1145/50
	Door unit module		1145/20		1145/22		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/53		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/63		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/739		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/639		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/339		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			39		40		41	
	Button modules	Repertory module	9 x 1145/14 + 1145/13	-	10 x 1145/14	-	10 x 1145/14	-
	Door unit module		1145/20		1145/20		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/500		1145/500		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/64		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/632		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			42	
	Button modules	Repertory module	10 x 1145/14	-
	Door unit module		1145/22	
	Camera unit modules		1745/40	
	Door unit		1145/500	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54	
	Module holders and frames		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732	
	Rain hood with wall cover frame (°)		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-	

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SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		1		2	
	Button modules	Repertory module	-	-	-	-	1145/12	-
	Door unit module		1145/21		1145/21		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		-		-		1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/52		1145/52		1145/53	
	Module holders and frames		1145/62		1145/62		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/712		1145/712		1145/713	
	Rain hood with wall cover frame (°)		1145/612		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/312		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/342		-		1145/343	

			2		3		3	
	Button modules	Repertory module	1145/12	-	1145/13	-	1145/13	-
	Door unit module		1145/20		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		1145/74		1145/74		1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		-		1145/613		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/313		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		1145/343		-	

SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			4		4		5	
	Button modules	Repertory module	1145/14	-	1145/14	-	1145/14	-
	Door unit module		1145/20		1145/20		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		1145/74		1145/74		1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/53		1145/53	
	Module holders and frames		1145/63		1145/63		1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/713		1145/713	
	Rain hood with wall cover frame (°)		1145/613		-		1145/613	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/313		-		1145/313	
GATE PILLAR(#)	Case with hood, frame and module holders		1145/343		-		1145/343	

			5		6		6	
	Button modules	Repertory module	1145/14	-	1145/14 + 1145/12	-	1145/14 + 1145/12	-
	Door unit module		1145/21		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		1145/74		2 x 1145/74		2 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/53		1145/54		1145/54	
	Module holders and frames		1145/63		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/713		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			7		7		8	
	Button modules	Repertory module	1145/14 + 1145/13	-	1145/14 + 1145/13	-	2 x 1145/14	-
	Door unit module		1145/20		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		2 x 1145/74		2 x 1145/74		2 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		1145/614		-		1145/614	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/314		-		1145/314	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			8		9		9	
	Button modules	Repertory module	2 x 1145/14	-	2 x 1145/14	-	2 x 1145/14	-
	Door unit module		1145/20		1145/21		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		2 x 1145/74		2 x 1145/74		2 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		1145/54		1145/54		1145/54	
	Module holders and frames		1145/64		1145/64		1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/714		1145/714		1145/714	
	Rain hood with wall cover frame (°)		-		1145/614		-	
WALL MOUNTED(#)	Case with hood, frame and module holders		-		1145/314		-	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

10

11

12

			10		11		12	
	Button modules	Repertory module	2 x 1145/14 + 1145/12	1145/50	2 x 1145/14 + 1145/13	1145/50	3 x 1145/14	1145/50
	Door unit module		1145/20		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		3 x 1145/74		3 x 1145/74		3 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

13

14

15

			13		14		15	
	Button modules	Repertory module	3 x 1145/14	1145/50	3 x 1145/14 + 1145/12	-	3 x 1145/14 + 1145/13	-
	Door unit module		1145/21		1145/20		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		3 x 1145/74		4 x 1145/74		4 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/53	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/726	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/626	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/326	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			16		17		18	
	Button modules	Repertory module	4 x 1145/14	-	4 x 1145/14	-	4 x 1145/14 + 1145/12	1145/50
	Door unit module		1145/20		1145/21		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		4 x 1145/74		4 x 1145/74		5 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/53		2 x 1145/53		2 x 1145/54	
	Module holders and frames		2 x 1145/63		2 x 1145/63		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/726		1145/726		1145/728	
	Rain hood with wall cover frame (°)		1145/626		1145/626		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/326		1145/326		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			20		21		22	
	Button modules	Repertory module	5 x 1145/14	1145/50	5 x 1145/14	1145/50	5 x 1145/14 + 1145/12	-
	Door unit module		1145/20		1145/21		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		5 x 1145/74		5 x 1145/74		6 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		2 x 1145/54	
	Module holders and frames		2 x 1145/64		2 x 1145/64		2 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/728	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/628	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/328		1145/328	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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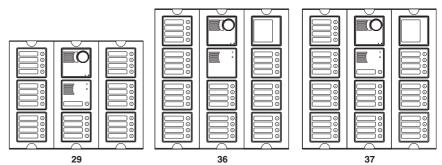
SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			24		25		28	
	Button modules	Repertory module	6 x 1145/14	-	6 x 1145/14	-	7 x 1145/14	-
	Door unit module		1145/20		1145/21		1145/20	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		6 x 1145/74		6 x 1145/74		7 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		2 x 1145/54		2 x 1145/54		3 x 1145/53	
	Module holders and frames		2 x 1145/64		2 x 1145/64		3 x 1145/63	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/728		1145/728		1145/739	
	Rain hood with wall cover frame (°)		1145/628		1145/628		1145/639	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/328		1145/326		1145/339	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

			29		36		37	
	Button modules	Repertory module	7 x 1145/14	-	9 x 1145/14	1145/50	9 x 1145/14	1145/50
	Door unit module		1145/21		1145/20		1145/21	
	Camera unit modules		1745/40		1745/40		1745/40	
	Door unit		1145/67		1145/67		1145/67	
	Conversation privacy device		7 x 1145/74		9 x 1145/74		9 x 1145/74	
	Camera adapter		1742/13A		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/53		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/63		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/739		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/639		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/339		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-		-	

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SINTHESI PANELS
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

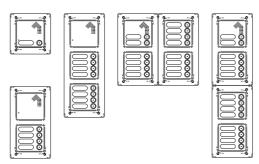
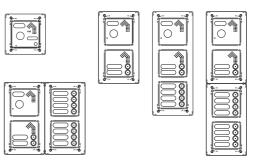
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			40		41	
	Button modules	Repertory module	10 x 1145/14	-	10 x 1145/14	-
	Door unit module		1145/20		1145/21	
	Camera unit modules		1745/40		1745/40	
	Door unit		1145/67		1145/67	
	Conversation privacy device		10 x 1145/74		10 x 1145/74	
	Camera adapter		1742/13A		1742/13A	
FLUSH MOUNTED (#)	Flush-mounting box		3 x 1145/54		3 x 1145/54	
	Module holders and frames		3 x 1145/64		3 x 1145/64	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		1145/732		1145/732	
	Rain hood with wall cover frame (°)		1145/632		1145/632	
WALL MOUNTED(#)	Case with hood, frame and module holders		1145/332		1145/332	
GATE PILLAR(#)	Case with hood, frame and module holders		-		-	

K-STEEL MODULAR VANDAL-PROOF PANEL

K-STEEL

DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

K-STEEL MODULAR VANDAL-PROOF PANEL

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VIDEO DOOR PHONE SYSTEMS - EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES	2b	18

K-STEEL MODULAR VANDAL-PROOF PANEL

This range of panels is characterised by a high degree of protection from acts of vandalism and the modularity of the elements.

The system consists of modular stainless steel elements. Modules are secured to specially designed housings complete with flush-mounting back boxes, a structure which enables modules to be combined either vertically or horizontally.
Modular design reduces the number of different products used in the system, making stock management easier for both wholesalers and installers.

The K-steel line can be used in the following types of system:
- 4+n wire doorphone system;
- 1+1 wire doorphone system;
- B&W and colour coax video door phone systems with 4+n wire electronic call;
- B&W 5-wire video door phone system with electronic call.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Width, 1-row faceplate:	**148 mm**
Faceplate protrusion from wall:	**19 mm**
Recessed depth:	**55 mm**
Maximum permissible recess error:	**6 mm from finished wall**
Faceplate finish:	**Bright stainless steel**
Urmet trademark:	**On speaker unit**
Button body:	**Bright stainless steel**
Total pushbutton stroke:	**1.5 mm**
Pushbutton free stroke:	**1 mm (before making contact)**
Insulation voltage across terminals:	**50 V rms**
Max. break current:	**2 A rms, resistive load**
Tag and button light:	**LED**
Tag protection:	**self-extinguishing polycarbonate**
Nameplate dimensions:	**73 + 12 (1) x 16.7 x 0.5 mm max (surface available for inscription = 58 x16.7 mm)**
Max. conductor cross-section: for button and lighting terminals:	**1.5 mm^2**
Protection level:	**IP 45 as per IEC 70.1**
Corrosion:	**As per DIN 5342/64**
Test duration:	**16 hours**
Temperature	**35°C**

(1) **12 mm = length of tab provided for removal purposes**

CONFIGURATION

The system can be used for flush-mounting or wall-mounting; it consists of the following parts:
- **Modules;**
- **Frames;**
- **Flush mounting box with module holder frames;**
- **Accessories.**

MODULE SPECIFICATIONS

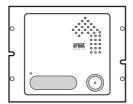
Each module is secured to the associated housing by means of threaded fasteners to ensure perfect alignment with the exterior frame.
System connections are made via terminal blocks on the rear of each module.
Modules are provided with a plastic rear protector, while a rubber gasket is installed between module and frame.
Pushbutton modules are provided with button and nameplate backlighting.
Nameplates are provided for engraving the user's name. Nameplates can be replaced only with plates of the same type supplied by Urmet-Domus; to replace, remove frame and take nameplate out.
Transparent nameplate covers can be replaced only after completely disassembling the module.
The wide range of modules can be combined in any desired configuration.

The dimensions of all K-Steel line modules are: 125 x 106 mm.

MODULES WITH DOOR UNIT

The following versions with built-in door unit are available:

Without call button
for 4+n systems **Ref. 1155/20**
for 1+1 systems **Ref. 1155/30**

With 1 call button
for 4+n systems **Ref. 1155/21**
for 1+1 systems **Ref. 1155/31**

With 2 call buttons
for 4+n systems **Ref. 1155/22**
for 1+1 systems **Ref. 1155/32**

DESCRIPTION OF TERMINALS Ref. 1155/20, Ref. 1155/21 AND Ref. 1155/22

Terminal	Description
1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
1	Traditional voice out (from speaker to door phone)
2	Voice in (from microphone to door phone)
G/T	Call button common (Ref. 1155/21 and 1155/22 modules only)
U1	Call button (Ref. 1155/21 and 1155/22 modules only)
U2	Call button (Ref. 1155/22 module only)
~0 / ~12	Button and name tag light LED power

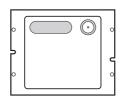
Note: *use terminal "1A" in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal "1" for Mod. 1130 door phones.*

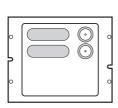
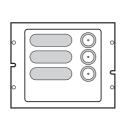
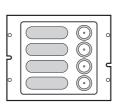
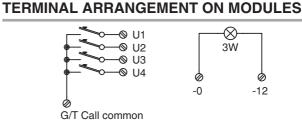
DESCRIPTION OF TERMINALS Ref. 1155/30, Ref. 1155/31 AND Ref. 1155/32

Terminal	Description
PS	Tone generator output
1/~	Door unit power earth
5	(Electrical lock emergency relay control)
~	Door unit power
3	Call buzzer (1130 door phones)
2	Electrical lock control
SN	Video power on control signal
1	Conversation privacy device earth
4	Conversation privacy device power
G/T	Call button common (Ref. 1155/31 and 1155/32 modules only)
C1	Call button (Ref. 1155/31 and 1155/32 modules only)
C2	Call button (Ref. 1155/32 only)
~0 / ~12	Button and name tag light LED power

PUSHBUTTON MODULES

Pushbutton modules are supplied in the following versions:

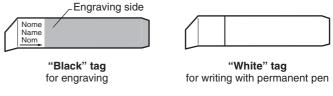
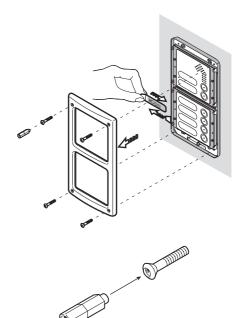
- One pushbutton **Ref. 1155/11**

- Two pushbuttons **Ref. 1155/12**

- Three pushbuttons **Ref. 1155/13**

- Four pushbuttons **Ref. 1155/14**

TERMINAL ARRANGEMENT ON MODULES

Pushbuttons and nameplates are lit by means of leds.
Modules are illuminated by supplying terminals ~0 and ~12.
The doorphone power supply unit used in the system is suffi cient for a maximum of 2 modules. For a larger number of modules, an appropriate power transformer will be requi-red.

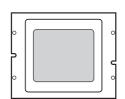
The 9000/230 transformer can supply a maximum of 5 button modules.

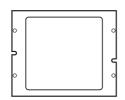
ENGRAVING OF NAME TAGS

"Black" tag
for engraving

"White" tag
for writing with permanent pen

Detail of vandal-proof screw and tool required for opening and closing the panel.

SPECIAL MODULES

Two types of special modules are available:

- Directory module **Ref. 1155/50**

Directory modules are normally used to indicate house number or other information.
Power terminals ~0 and ~12 to light the unit via LEDs.

- Blank module **Ref. 1155/59**

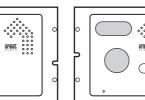
This module is used to fill unused spaces in modular installations.

The same module can be used for other applications, e.g. burglar alarms and automatic gates.

DOOR CAMERA MODULE

Door camera modules are available in the following versions:

Coaxial cable version
- with speaker unit **Ref. 1755/80**
- without speaker unit **Ref. 1755/70**
- colour system without door unit **Ref. 1755/40**
- without speaker unit (60Hz), (not available in Italy) **Ref. 1755/79**
- With door unit and 1 call button for one-family villas **Ref. 1755/81**

Version for extended differential video signal
- without speaker unit **Ref. 1755/30A**
- without speaker unit (60Hz) (not available in Italy) **Ref. 1755/39A**
- with speaker unit **Ref. 1755/20***
- With door unit and 1 call button for one-family villas **Ref. 1755/21***

***NEW - available from July 2003**

CAMERA ORIENTATION

Camera modules versions Ref. 1755/30A, Ref. 1755/39A, Ref. 1755/40, Ref. 1755/70, Ref. 1755/79, Ref. 1755/80, Ref. 1755/81 make it possible to adjust the orientation of the lens of the TV camera located inside these after tilting back the frame of the push button panel, in order to overcome any installation flaws. The adjustment along the vertical axis in relation to the position set is 10° up and 15° down.
The adjustment along the horizontal axis in relation to the position set is 10° in both directions (left-right).

A B C = POSITION ADJUSTMENT
D = HEATER
E = KEY + NAME TAG LIGHT

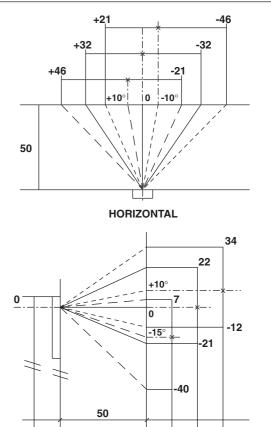
Orientation along the vertical axis

After loosening lock screw (**A**), operate on the specifi c adjustment unit as follows:
- pushing plate (**B**) up, the area framed is moved toward the top of the screen;
- pushing plate (**B**) down, the area framed is moved toward the bottom of the screen.

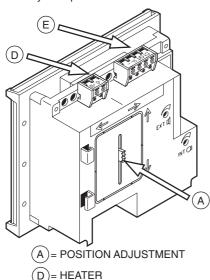
Orientation along the horizontal axis

After loosening lock screw (**A**), operate on the specifi c adjustment unit as follows:
- pushing cross-tie (**C**) to the right of the operator, the area framed will be moved toward the right of the screen;
- pushing cross-tie (**C**) to the left of the operator, the area framed will be moved toward the left of the screen.

After making the adjustments, tighten lock screw (**A**).

Imaging angles

Measurements in centimetres

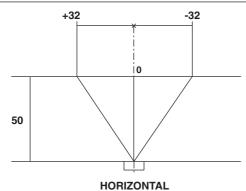
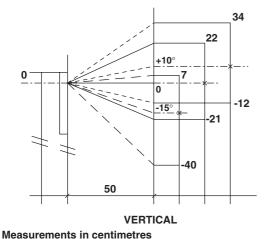
Camera modules versions Ref. 1755/20, Ref. 1755/21. The orientation of the camera lens inside the camera modules Ref. 1755/20, Ref. 1755/21 can be adjusted after opening the pushbutton panel frame to compensate for installation imperfections.
The camera lens can be adjusted along the vertical axis with respect to the set position by 10° upwards and 15° downwards.

(A) = POSITION ADJUSTMENT
(D) = HEATER
(E) = KEY + NAME TAG LIGHT

Orientation along the vertical axis

- Push the lever (**A**) upwards to move the camera field upwards on the screen.
- Push the lever (**A**) downwards to move the camera field downwards on the screen.

Imaging angles

HORIZONTAL

VERTICAL
Measurements in centimetres

DEMISTER POWER

The module is provided with a demister fitted on the lower side. Connect the circuit permanently via terminals (**D**) ~0 and ~12 to a 12Vac voltage source in the system when installing the system in particularly humid areas. Note that the demister circuit will only be powered at night if the device is connected to a light circuit controlled by a dusk switch.
Connect the circuit by means of the specifically provided extractable two-way terminal board shown in the figure.
Current uptake is negligible. However, it is advisable to take voltage from a secondary transformer, if possible.

VOLUME ADJUSTMENT (Ref. 1755/80, Ref. 1755/81, Ref. 1755/20, Ref. 1755/21 VERSION ONLY)

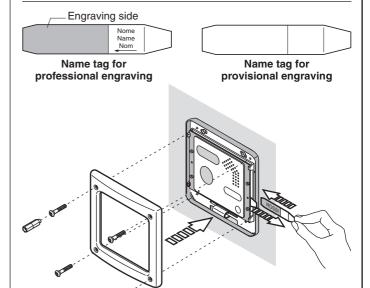
Volume can be adjusted both ways (internal and external) by means of two potentiometers which can be accessed after opening the panel frame in modules with door unit.
To adjust external volume:
- turn the **EXT**. potentiometer clockwise to turn the volume up and anticlockwise to turn it down.

To adjust internal volume:
- turn the **INT**. potentiometer clockwise to turn the volume up and anticlockwise to turn it down.

Transmission level calibration is optimal. You are advised to adjust the volume only if required to avoid disrupting the acoustic balance using the potentiometer which adjusts the external volume only.

ENGRAVING OF NAME TAGS FOR Ref. 1755/81 AND 1755/21

Name tag for professional engraving

Name tag for provisional engraving

DESCRIPTION OF TERMINALS

Models Ref. 1755/70 Ref. 1755/79 Ref. 1755/40

Terminal	Description
~0 (a)	Demister power
~12 (a)	Demister power
+TC	Camera power positive
R1	Camera power negative
V5	Video signal earth
V3	Video signal

Models Ref. 1755/80

~0 (a) ~12 (a)	Demister power
+TC	Camera power positive
R1	Camera power negative
V5	Video signal earth
V3	Video signal
1	Traditional voice out (from speaker to door phone)
1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
2	Voice in (from microphone to door phone)

Models Ref. 1755/81

~0 (a) ~12 (a)	Demister power
+TC	Camera power positive
R1	Camera power negative
V5	Video signal earth
V3	Video signal
1	Traditional voice out (from speaker to door phone)
1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
2	Voice in (from microphone to door phone)
U1	Column call button
G/T	Call button common
~ 0 (b) ~ 12 (b)	Button and name tag light LED power

Models Ref. 1755/30A Ref. 1755/39A

~0 (a) ~12 (a)	Demister power
T	Camera on control in digital systems
R2	Camera power positive in digital systems
+TC	Camera power positive in analogic systems
R1	Negativo di alimentazione telecamera
A	Differential video signal output (negative)
B	Differential video signal output (positive)

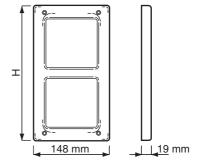
Models Ref. 1755/20

~0 (a) ~12 (a)	Demister power
+TC	Camera power positive
R1	Camera power negative
A	Differential video signal output (negative)
B	Differential video signal output (positive)
1/~	Door unit power earth
~	Door unit power
5	(Electrical lock emergency relay control)
SE	Electrical lock
SN	Video power on control signal
F	Voice
4	Conversation privacy circuit connection
PS	Tone generator output
1/~	Conversation privacy device earth
1/~	Video power on earth signal

Models Ref. 1755/21

~0 (a) ~12 (a)	Demister power
+TC	Camera power positive
R1	Camera power negative
A	Differential video signal output (negative)
B	Differential video signal output (positive)
C1	Column call button
G/T	Call button common
1/~	Door unit and name tag light LED power negative
~	Door unit and name tag light LED power positive
5	(Electrical lock emergency relay control)
SE	Electrical lock
SN	Video power on control signal
F	Voice
4	Conversation privacy circuit connection
PS	Tone generator output
1/~	Conversation privacy device earth
1/~	Video power on earth signal

FRAMES

Frame performs decorative and protective functions. After securing modules to the housing, entrance panel is completed by installing the frame using the tamperproof screws provided with the unit. Frames are available in 1, 2 and 3 module versions.

Frame with 1 modules H=418mm

Bright PVD inox	**Ref. 1155/84**
Blue	**Ref. 1155/87**
Glazed inox	**Ref. 1155/91**

Frame with 2 modules H=266mm

Bright PVD inox	**Ref. 1155/85**
Blue	**Ref. 1155/88**
Glazed inox	**Ref. 1155/92**

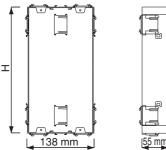
Frame with 3 modules H=384mm

Bright PVD inox	**Ref. 1155/86**
Blue	**Ref. 1155/89**
Glazed inox	**Ref. 1155/93**

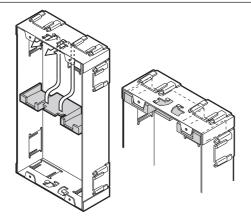
FLUSH-MOUNTING BACK BOXES WITH MODULE HOUSINGS

GALVANIZED STEEL BACK BOXES

1, 2 and 3 module versions can be combined either horizontally or vertically.
Back boxes are joined by means of spacer grommets which ensure correct alignment and spacing.
Back boxes and frames of differing heights cannot be combined horizontally. For example, as with the Kombi entrance panel, two different heights will result if a 3-module back box is joined to a 2-module back box with a 1-module back box above it.

Flush-mounting back boxes are hinged so that the bottom of the module housing can be swung downwards during installation. System wiring can be routed into the back box through the spacer grommets (two per side) or through the apertures provided in the bottom of the box. All openings are shut by removable closures.
Available configurations are as follows:

- For 1 module with H= 139mm **Ref. 1155/61**
- For 2 modules with H= 256mm **Ref. 1155/62**
- For 3 modules with H= 376mm **Ref. 1155/63**

All versions include spacer grommets and junction plates for assembly with other back boxes.

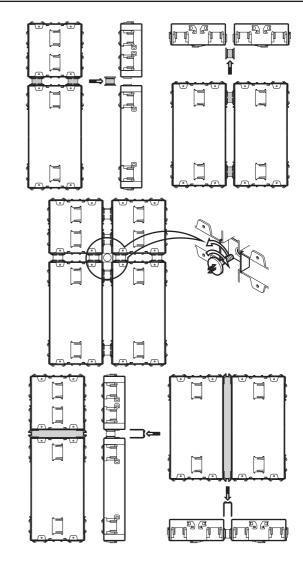
INTERNAL MODULE GUARD

The embedding boxes are equipped with a removable internal guard. The guard should be fitted on the upper side of the box once it is installed to protect the modules from water infiltration and humidity inside the pushbutton panel.
Fit the guard as shown in the drawing. Fasten it in the upper housing which is not used for fastening the module frame.

JOINING FLUSH-MOUNTING BOXES

The flush-mounting joining kit Ref. 1155/54 consists of the following parts:

1 mobile crossing plate
1 fixed crossing plate
1 horizontal protection crosspiece
1 protection 2-module crosspiece
1 protection 3-module crosspiece
1 sliding hinge
1 screw cap
2 fairlead shims
1 frame alignment shim
4 M4 x 16 galvanised screws for frame

This product may be used to install flush-mounting boxes horizontally and vertically side by side as shown below:

1. Fit the flush-mounting boxes by means of the shims provided through which the system connection wires may be passed.
2. Insert crossing plate provided in the middle of with the assembled boxes.
3. Insert the protective crosspieces between the flush-mounting boxes.

STAINLESS STEEL MODULE HOUSINGS

1, 2 and 3 module versions. All 2 and 3-module housings are provided with partitions that must be removed in cases where double modules are used. Single and double modules are secured to the housing by means of threaded fasteners.
During installation, the housing is attached to the hinge on the lower side of the flush-mounting back box. This permits the housing to be swung downwards (as is done with the Kombi entrance panel) to facilitate electrical connections.
Once electrical connections have been made, the housing is swung upwards and subsequently retained to the back box by means of threaded fasteners. Squareness errors of ±2° and errors in recess depth up to 6 mm made when installing back box can be corrected at this point.

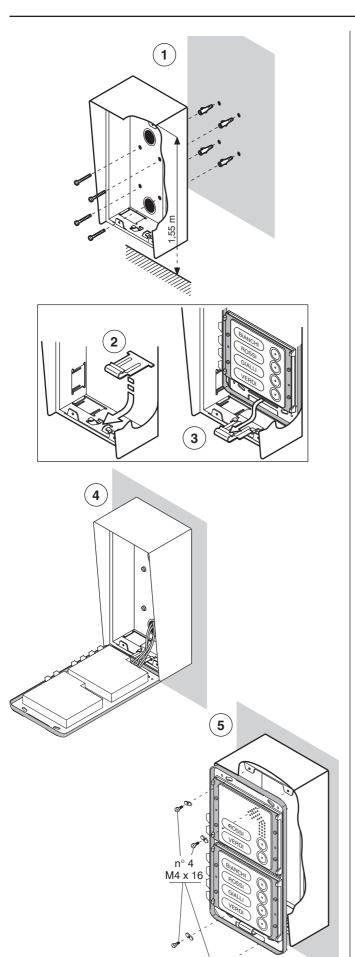
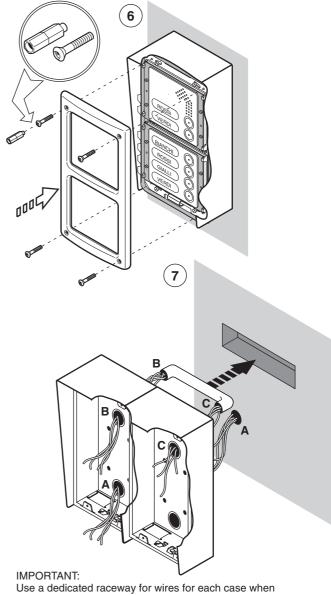
CASES WITH HOOD

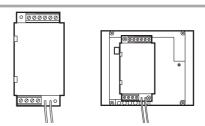
Use the specific cases with hood for K-Steel module wall-mounted installations:

Ref. 1155/311 case with hood for 1 module (dimension:152.4 x 151.9 x 104.2 mm)
Ref. 1155/312 case with hood for 2 module (dimension:152.4 x 269.9 x 104.2 mm)
Ref. 1155/313 case with hood for 3 module (dimension:152.4 x 387.9 x 104.2 mm)

The cases are made of stainless steel and ensure good protection of the panel from direct contact with rain.
The cases are provided with hoods. The module holder frame can be tipped over thanks to a hinge to ensure the same installation ease as normal flush-mounted versions. Frames are provided separately.

1,55 m

n° 4
M4 x 16

IMPORTANT:
Use a dedicated raceway for wires for each case when two or more cases are fitted side-by-side.

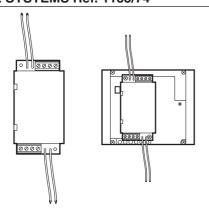
CONVERSATION PRIVACY DEVICE

4+N WIRE SYSTEMS Ref. 1155/75

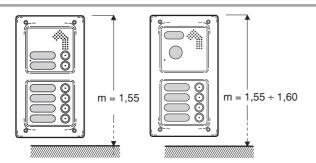
CAPABILITIES

The device is used for conversation privacy function in 4+n wire door phone systems and coax video door phone systems only.
In the case of house phone systems, a device must be used for each push button panel, combined with house phones 1131 or 1132 equipped with secrecy of conversation device Ref. 1131/5.
On video house phone systems, a device must be used for each push button panel, combined with Ref. 1202/95 (Winflat+) and Ref.1704/95 (Sentry+) video brackets with secrecy of conversation.

FUNCTIONING

All the appliances are usually disabled for conversation (no conversation can be held with the outside on lifting the hand-set): the conversation can be started only by the appliance called from the push button panel.
The device allows electric lock release in two different ways:
Free: the lock is released each time the door opener key (solution A) is pressed.
With secrecy: the lock can be activated only following a call. (solution B)

1+1 WIRE SYSTEMS Ref. 1155/74

The device is used to provide secrecy of conversation in 1+1 type house phone systems only.
Each device is designed to be assembled on the 4-button module with the two screws provided as shown in the figure, connecting wires C1÷C4 to terminals U1÷U4 of the keys module; for connections to the system, use terminals C1÷C4 on the device.
If 1, 2 or 3 button key modules are used, the device is used only partially.

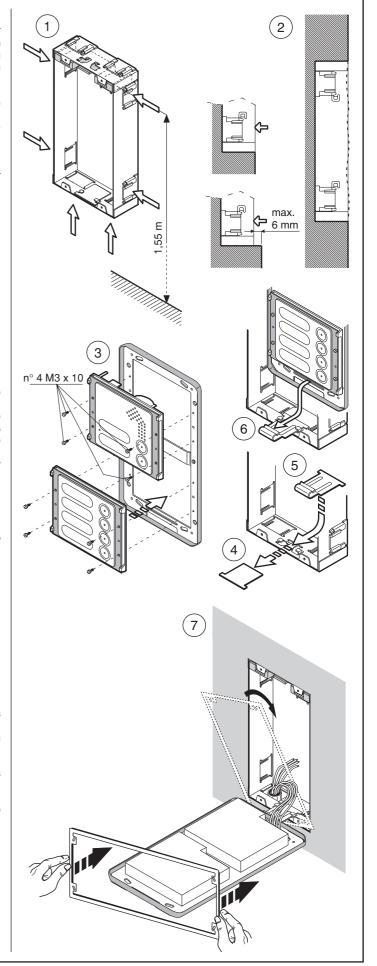
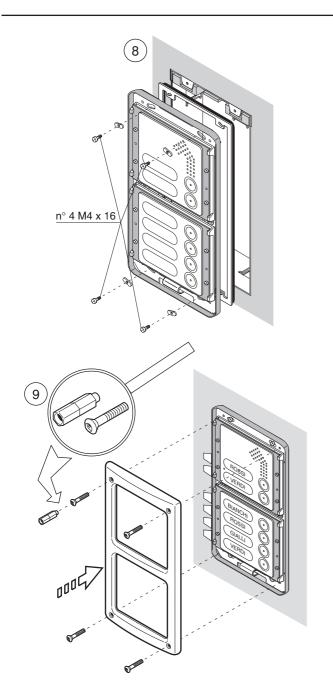
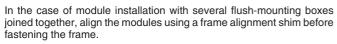
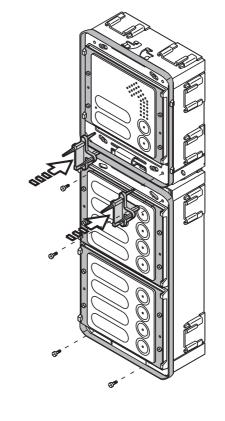
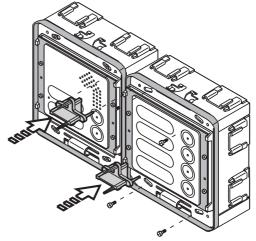
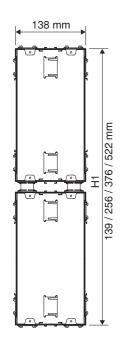
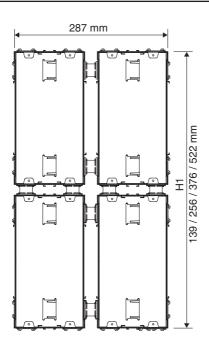
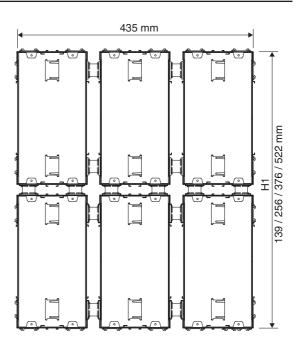
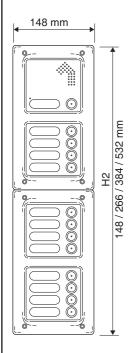
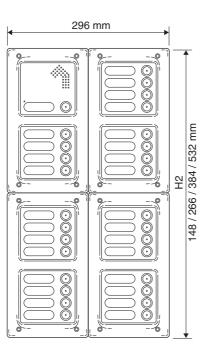
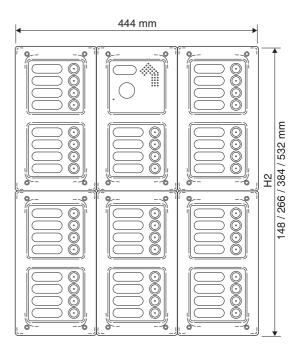
INSTALLATION

1 Refer the protections from the hole to be used to pass the wires only from the flush-mounting box (see figure below).
2 Flush the box and the required height considering the direction and the indications provided for video systems.
3 Fit the flush mounting box in line with the wall: it must not project.
4 The wall surface on which the front rests must be as smooth as possible (max. tolerance 1.5 mm).

Warning: During installation, protect all parts which will be exposed to view from mortar, plaster and cement.
Never use abrasive detergents to clean units.

1 2 max. 6 mm 1,55 m 3 n° 4 M3 x 10 4 5 6 7

In the case of module installation with several flush-mounting boxes joined together, align the modules using a frame alignment shim before fastening the frame.

K-STEEL MODULAR VANDAL-PROOF PANEL

DIMENSIONS

Note: ***H1= 139, 256, 376, 522 indicates flush mounting height and H2= 148, 266, 384, 532 indicates to total height relative to 1, 2, 3 and 4 module versions***

K-STEEL MODULAR VANDAL-PROOF PANEL
DOOR PHONE SYSTEMS

K-STEEL

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(@) alternatives

		1	2	3	4
	Flush-mounting back boxes with module housings (@)	1155/61	1155/61	1155/62	1155/62
	Cases with hood (@)	1155/311	1155/311	1155/312	1155/312
	Pushbutton modules	-	-	1155/13	1155/14
	Frames	1155/91 (•)	1155/91 (•)	1155/92 (♦)	1155/92 (♦)
	Blank module / Directory module	- / -	- / -	- / -	- / -
4+n WIRE	Door unit modules	1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules	1155/31	1155/32	1155/30	1155/30
1+1 WIRE	Conversation privacy device	-	-	1155/74	1155/74

		5	6	7	8
	Flush-mounting back boxes with module housings (@)	1155/62	1155/62	1155/63	1155/63
	Cases with hood (@)	1155/312	1155/312	1155/313	1155/313
	Pushbutton modules	1155/14	1155/14	1 x 1155/13 - 1 x 1155/14	2 x 1155/14
	Frames	1155/92 (♦)	1155/92 (♦)	1155/93 (∗)	1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
4+n WIRE	Door unit modules	1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules	1155/31	1155/32	1155/30	1155/30
1+1 WIRE	Conversation privacy device	1155/74	1155/74	2 x 1155/74	2 x 1155/74

		9	10	11	12
	Flush-mounting back boxes with module housings (@)	1155/63	1155/63	2 x 1155/62	2 x 1155/62
	Cases with hood (@)	1155/313	1155/313	2 x 1155/312	2 x 1155/312
	Pushbutton modules	2 x 1155/14	2 x 1155/14	1 x 1155/13 - 2 x 1155/14	3 x 1155/14
	Frames	1155/93 (∗)	1155/93 (∗)	2 x 1155/92 (♦)	2 x 1155/92 (♦)
	Blank module / Directory module	- / -	- / -	- / -	- / -
4+n WIRE	Door unit modules	1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules	1155/31	1155/32	1155/30	1155/30
1+1 WIRE	Conversation privacy device	2 x 1155/74	2 x 1155/74	3 x 1155/74	3 x 1155/74

K-STEEL

K-STEEL MODULAR VANDAL-PROOF PANEL
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives

			13	14	11	12
	Flush-mounting back boxes with module housings (@)		2 x 1155/62	2 x 1155/62	2 x 1155/62	2 x 1155/62
	Cases with hood (@)		2 x 1155/312	2 x 1155/312	-	-
	Pushbutton modules		3 x 1155/14	3 x 1155/14	1 x 1155/13 - 2 x 1155/14	3 x 1155/14
	Frames		2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)
	Blank module	Directory module	- / -	- / -	- / -	- / -
4+n WIRE	Door unit modules		1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules		1155/31	1155/32	1155/30	1155/30
	Conversation privacy device		3 x 1155/74	3 x 1155/74	3 x 1155/74	3 x 1155/74

			13	14	15	16
	Flush-mounting back boxes with module housings (@)		2 x 1155/62	2 x 1155/62	2 x 1155/63	2 x 1155/63
	Cases with hood (@)		-	-	2 x 1155/313	2 x 1155/313
	Pushbutton modules		3 x 1155/14	3 x 1155/14	1 x 1155/13 - 3 x 1155/14	4 x 1155/14
	Frames		2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/93 (*)	2 x 1155/93 (*)
	Blank module	Directory module	- / -	- / -	- / 1155/50	- / 1155/50
4+n WIRE	Door unit modules		1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules		1155/31	1155/32	1155/30	1155/30
	Conversation privacy device		3 x 1155/74	3 x 1155/74	4 x 1155/74	4 x 1155/74

			17	18	19	20
	Flush-mounting back boxes with module housings (@)		2 x 1155/63	2 x 1155/63	2 x 1155/63	2 x 1155/63
	Cases with hood (@)		2 x 1155/313	2 x 1155/313	2 x 1155/313	2 x 1155/313
	Pushbutton modules		4 x 1155/14	4 x 1155/14	1 x 1155/13 - 4 x 1155/14	5 x 1155/14
	Frames		2 x 1155/93 (*)	2 x 1155/93 (*)	2 x 1155/93 (*)	2 x 1155/93 (*)
	Blank module	Directory module	- / 1155/50	- / 1155/50	- / -	- / -
4+n WIRE	Door unit modules		1155/21	1155/22	1155/20	1155/20
1+1 WIRE	Door unit modules		1155/31	1155/32	1155/30	1155/30
	Conversation privacy device		4 x 1155/74	4 x 1155/74	5 x 1155/74	5 x 1155/74

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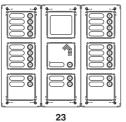
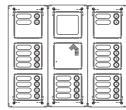
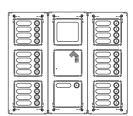
K-STEEL MODULAR VANDAL-PROOF PANEL
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(@) alternatives

			21		22		24		25	
	Flush-mounting back boxes with module housings (@)		2 x 1155/63		2 x 1155/63		4 x 1155/62		4 x 1155/62	
	Cases with hood (@)		2 x 1155/313		2 x 1155/313		-		-	
	Pushbutton modules		5 x 1155/14		5 x 1155/14		6 x 1155/14		6 x 1155/14	
	Frames		2 x 1155/93 (∗)		2 x 1155/93 (∗)		4 x 1155/92 (♦)		4 x 1155/92 (♦)	
	Blank module	Directory module	-	-	-	-	-	1155/50	-	1155/50
	Flush-mounting joining kit		-		-		1 x 1155/54		1 x 1155/54	
4+n WIRE	Door unit modules		1155/21		1155/22		1155/20		1155/21	
1+1 WIRE	Door unit modules		1155/31		1155/32		1155/30		1155/31	
	Conversation privacy device		5 x 1155/74		5 x 1155/74		6 x 1155/74		6 x 1155/74	

			26		28		29		30	
	Flush-mounting back boxes with module housings (@)		4 x 1155/62		4 x 1155/62		4 x 1155/62		4 x 1155/62	
	Cases with hood (@)		-		-		-		-	
	Pushbutton modules		6 x 1155/14		7 x 1155/14		7 x 1155/14		7 x 1155/14	
	Frames		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)	
	Blank module	Directory module	-	1155/50	-	-	-	-	-	-
	Flush-mounting joining kit		1 x 1155/54		1 x 1155/54		1 x 1155/54		1 x 1155/54	
4+n WIRE	Door unit modules		1155/22		1155/20		1155/21		1155/22	
1+1 WIRE	Door unit modules		1155/32		1155/30		1155/31		1155/32	
	Conversation privacy device		6 x 1155/74		7 x 1155/74		7 x 1155/74		7 x 1155/74	

			23		24		25	
	Flush-mounting back boxes with module housings (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Cases with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Pushbutton modules		3 x 1155/12 - 4 x 1155/14		2 x 1155/12 - 5 x 1155/14		6 x 1155/14 + 1155/11	
	Frames		3 x 1155/93 (∗)		3 x 1155/93 (∗)		3 x 1155/93 (∗)	
	Blank module	Directory module	-	1155/50	-	1155/50	-	1155/50
4+n WIRE	Door unit modules		1155/21		1155/20		1155/20	
1+1 WIRE	Door unit modules		1155/31		1155/30		1155/30	
	Conversation privacy device		7 x 1155/74		7 x 1155/74		6 x 1155/74	

K-STEEL

K-STEEL MODULAR VANDAL-PROOF PANEL
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(@) alternatives

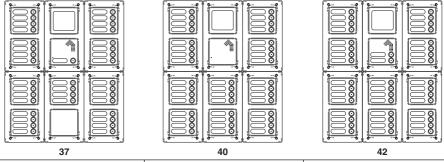
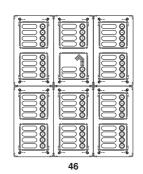
			26		27		28	
	Flush-mounting back boxes with module housings (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Cases with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Pushbutton modules		1 x 1155/12 - 6 x 1155/14		1 x 1155/13 - 6 x 1155/14		7 x 1155/14	
	Frames		3 x 1155/93 (∗)		3 x 1155/93 (∗)		3 x 1155/93 (∗)	
	Blank module	Directory module	-	1155/50	-	1155/50	-	1155/50
4+n WIRE	Door unit modules		1155/20		1155/20		1155/20	
1+1 WIRE	Door unit modules		1155/30		1155/30		1155/30	
	Conversation privacy device		7 x 1155/74		7 x 1155/74		7 x 1155/74	

			29		30		31	
	Flush-mounting back boxes with module housings (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Cases with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Pushbutton modules		7 x 1155/14 + 1155/11		7 x 1155/14 + 1155/12		1 x 1155/13 - 7 x 1155/14	
	Frames		3 x 1155/93 (∗)		3 x 1155/93 (∗)		3 x 1155/93 (∗)	
	Blank module	Directory module	-	1155/50	-	1155/50	-	-
4+n WIRE	Door unit modules		1155/20		1155/20		1155/20	
1+1 WIRE	Door unit modules		1155/30		1155/30		1155/30	
	Conversation privacy device		8 x 1155/74		8 x 1155/74		8 x 1155/74	

			32		33		34	
	Flush-mounting back boxes with module housings (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Cases with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Pushbutton modules		8 x 1155/14		8 x 1155/14		8 x 1155/14	
	Frames		3 x 1155/93 (∗)		3 x 1155/93 (∗)		3 x 1155/93 (∗)	
	Blank module	Directory module	-	-	-	-	-	-
4+n WIRE	Door unit modules		1155/20		1155/21		1155/22	
1+1 WIRE	Door unit modules		1155/30		1155/31		1155/32	
	Conversation privacy device		8 x 1155/74		8 x 1155/74		8 x 1155/74	

K-STEEL MODULAR VANDAL-PROOF PANEL
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(@) alternatives

		37	40	42
	Flush-mounting back boxes with module housings (@)	6 x 1155/62	6 x 1155/62	6 x 1155/62
	Cases with hood (@)	-	-	-
	Pushbutton modules	9 x 1155/14	10 x 1155/14	10 x 1155/14
	Frames	6 x 1155/92 (♦)	6 x 1155/92 (♦)	6 x 1155/92 (♦)
	Blank module	1155/59	-	-
	Directory module	1155/50	1155/50	1155/50
	Flush-mounting joining kit	2 x 1155/54	2 x 1155/54	2 x 1155/54
4+n WIRE	Door unit modules	1155/21	1155/20	1155/22
1+1 WIRE	Door unit modules	1155/31	1155/30	1155/32
1+1 WIRE	Conversation privacy device	9 x 1155/74	10 x 1155/74	10 x 1155/74

		44	46
	Flush-mounting back boxes with module housings (@)	6 x 1155/62	6 x 1155/62
	Cases with hood (@)	-	-
	Pushbutton modules	11 x 1155/14	11 x 1155/14
	Frames	6 x 1155/65	6 x 1155/65
	Blank module	-	-
	Directory module	-	-
	Flush-mounting joining kit	2 x 1155/54	2 x 1155/54
4+n WIRE	Door unit modules	1155/20	1155/22
1+1 WIRE	Door unit modules	1155/30	1155/32
1+1 WIRE	Conversation privacy device	11 x 1155/74	11 x 1155/74

K-STEEL MODULAR VANDAL-PROOF PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(#) alternatives
(@) alternatives

		1	**2**	**3 (B&W coax only)**	**3**
	Flush-mounting back boxes with module housings (@)	1155/62	1155/62	1155/62	1155/63
	Cases with hood (@)	1155/312	1155/312	1155/312	1155/313
	Pushbutton modules	-	-	1155/13	1155/13
	Frames	1155/92 (♦)	1155/92 (♦)	1155/92 (♦)	1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/80	1755/70
	Colour camera modules (#)	1755/40	1755/40	-	1755/40
	Door unit modules	1155/21	1155/22	-	1155/20
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	-	1755/30A
	Door unit modules	1155/31	1155/32	-	1155/30
	Conversation privacy device	-	-	-	1155/74

		4 (B&W coax only)	**4**	**5**	**6**
	Flush-mounting back boxes with module housings (@)	1155/62	1155/63	1155/63	1155/63
	Cases with hood (@)	1155/312	1155/313	1155/313	1155/313
	Pushbutton modules	1155/14	1155/14	1155/14	1155/14
	Frames	1155/92 (♦)	1155/93 (∗)	1155/93 (∗)	1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/80	1755/70	1755/70	1755/70
	Colour camera modules (#)	-	1755/40	1755/40	1755/40
	Door unit modules	-	1155/20	1155/21	1155/22
5 WIRE	Camera modules (B&W only)	-	1755/30A	1755/30A	1755/30A
	Door unit modules	-	1155/30	1155/31	1155/32
	Conversation privacy device	-	1155/74	1155/74	1155/74

		7 (B&W coax only)	**7**	**7**	**8 (B&W coax only)**
	Flush-mounting back boxes with module housings (@)	1155/63	2 x 1155/62	2 x 1155/62	1155/63
	Cases with hood (@)	1155/313	-	2 x 1155/312	1155/313
	Pushbutton modules	1155/14 + 1155/13	1155/14 + 1155/13	1155/14 + 1155/13	2 x 1155/14
	Frames	1155/93 (∗)	2 x 1155/92 (♦)	2 x 1155/92 (♦)	1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/80	1755/70	1755/70	1755/80
	Colour camera modules (#)	-	1755/40	1755/40	-
	Door unit modules	-	1155/20	1155/20	-
5 WIRE	Camera modules (B&W only)	-	1755/30A	1755/30A	-
	Door unit modules	-	1155/30	1155/30	-
	Conversation privacy device	-	2 x 1155/74	2 x 1155/74	-

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(#) alternatives
(@) alternatives

		8	8	9	9
	Flush-mounting back boxes with module housings (@)	2 x 1155/62	2 x 1155/62	2 x 1155/62	2 x 1155/62
	Cases with hood (@)	-	2 x 1155/312	-	2 x 1155/312
	Pushbutton modules	2 x 1155/14	2 x 1155/14	2 x 1155/14	2 x 1155/14
	Frames	2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)
	Blank module	-	-	-	-
	Directory module	-	-	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/70	1755/70
	Colour camera modules (#)	1755/40	1755/40	1755/40	1755/40
	Door unit modules	1155/20	1155/20	1155/21	1155/21
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	1755/30A	1755/30A
	Door unit modules	1155/30	1155/30	1155/31	1155/31
	Conversation privacy device	2 x 1155/74	2 x 1155/74	2 x 1155/74	2 x 1155/74

		10	10	11 (B&W coax only)	11 (B&W coax only)
	Flush-mounting back boxes with module housings (@)	2 x 1155/62	2 x 1155/62	2 x 1155/62	2 x 1155/62
	Cases with hood (@)	-	2 x 1155/312	-	2 x 1155/312
	Pushbutton modules	2 x 1155/14	2 x 1155/14	2 x 1155/14 + 1155/13	2 x 1155/14 + 1155/13
	Frames	2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)
	Blank module	-	-	-	-
	Directory module	-	-	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/80	1755/80
	Colour camera modules (#)	1755/40	1755/40	-	-
	Door unit modules	1155/22	1155/22	-	-
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	-	-
	Door unit modules	1155/32	1155/32	-	-
	Conversation privacy device	2 x 1155/74	2 x 1155/74	-	-

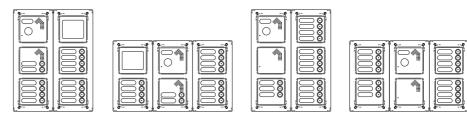
K-STEEL

K-STEEL MODULAR VANDAL-PROOF PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(#) alternatives
(@) alternatives

		11	11	12 (B&W coax only)	12 (B&W coax only)
	Flush-mounting back boxes with module housings (@)	2 x 1155/63	3 x 1155/62	2 x 1155/62	2 x 1155/62
	Cases with hood (@)	2 x 1155/313	3 x 1155/312	-	2 x 1155/312
	Pushbutton modules	2 x 1155/14 + 1155/13	2 x 1155/14 + 1155/13	3 x 1155/14	3 x 1155/14
	Frames	2 x 1155/93 (∗)	3 x 1155/92 (♦)	2 x 1155/92 (♦)	2 x 1155/92 (♦)
	Blank module	-	-	-	-
	Directory module	1155/50	1155/50	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/80	1755/80
	Colour camera modules (#)	1755/40	1755/40	-	-
	Door unit modules	1155/20	1155/20	-	-
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	-	-
	Door unit modules	1155/30	1155/30	-	-
	Conversation privacy device	3 x 1155/74	3 x 1155/74	-	-

		12	12	13	13
	Flush-mounting back boxes with module housings (@)	2 x 1155/63	3 x 1155/62	2 x 1155/63	3 x 1155/62
	Cases with hood (@)	2 x 1155/313	3 x 1155/312	3 x 1155/313	3 x 1155/312
	Pushbutton modules	3 x 1155/14	3 x 1155/14	3 x 1155/14	3 x 1155/14
	Frames	2 x 1155/93 (∗)	3 x 1155/92 (♦)	3 x 1155/93 (∗)	3 x 1155/92 (♦)
	Blank module	-	-	-	-
	Directory module	1155/50	1155/50	1155/50	1155/50
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/70	1755/70
	Colour camera modules (#)	1755/40	1755/40	1755/40	1755/40
	Door unit modules	1155/20	1155/20	1155/21	1155/21
5 WIRE	Moduli telecamera (solo bianco/nero)	1755/30A	1755/30A	1755/30A	1755/30A
	Moduli per Posto Esterno	1155/30	1155/30	1155/31	1155/31
	Dispositivo segreto di conversazione	3 x 1155/74	3 x 1155/74	3 x 1155/74	3 x 1155/74

		14	14	15	15
	Flush-mounting back boxes with module housings (@)	2 x 1155/63	3 x 1155/62	2 x 1155/63	3 x 1155/62
	Cases with hood (@)	2 x 1155/313	3 x 1155/312	2 x 1155/313	3 x 1155/312
	Pushbutton modules	3 x 1155/14	3 x 1155/14	3 x 1155/14 + 1155/13	3 x 1155/14 + 1155/13
	Frames	2 x 1155/93 (∗)	3 x 1155/92 (♦)	2 x 1155/93 (∗)	3 x 1155/92 (♦)
	Blank module	-	-	-	-
	Directory module	1155/50	1155/50	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/70	1755/70
	Colour camera modules (#)	1755/40	1755/40	1755/40	1755/40
	Door unit modules	1155/22	1155/22	1155/20	1155/20
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	1755/30A	1755/30A
	Door unit modules	1155/32	1155/32	1155/30	1155/30
	Conversation privacy device	3 x 1155/74	3 x 1155/74	4 x 1155/74	4 x 1155/74

K-STEEL MODULAR VANDAL-PROOF PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(#) alternatives
(@) alternatives

		16	17	18	20 (B&W coax only)
	Flush-mounting back boxes with module housings (@)	2 x 1155/63	2 x 1155/63	2 x 1155/63	2 x 1155/63
	Cases with hood (@)	2 x 1155/313	2 x 1155/313	2 x 1155/313	2 x 1155/313
	Pushbutton modules	4 x 1155/14	4 x 1155/14	4 x 1155/14	5 x 1155/14
	Frames	2 x 1155/93 (∗)	2 x 1155/93 (∗)	2 x 1155/93 (∗)	2 x 1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/70	1755/80
	Colour camera modules (#)	1755/40	1755/40	1755/40	-
	Door unit modules	1155/20	1155/21	1155/22	-
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	1755/30A	-
	Door unit modules	1155/30	1155/31	1155/32	-
	Conversation privacy device	4 x 1155/74	4 x 1155/74	4 x 1155/74	-

		20 (B&W coax only)	20	21	22
	Flush-mounting back boxes with module housings (@)	3 x 1155/62	4 x 1155/62	4 x 1155/62	4 x 1155/62
	Cases with hood (@)	3 x 1155/312	-	-	-
	Pushbutton modules	5 x 1155/14	5 x 1155/14	5 x 1155/14	5 x 1155/14
	Frames	3 x 1155/92 (♦)	4 x 1155/92 (♦)	4 x 1155/92 (♦)	4 x 1155/92 (♦)
	Blank module / Directory module	- / -	- / 1155/50	- / 1155/50	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/80	1755/70	1755/70	1755/70
	Colour camera modules (#)	-	1755/40	1755/40	1755/40
	Door unit modules	-	1155/20	1155/21	1155/22
5 WIRE	Camera modules (B&W only)	-	1755/30A	1755/30A	1755/30A
	Door unit modules	-	1155/30	1155/31	1155/32
	Conversation privacy device	-	5 x 1155/74	5 x 1155/74	5 x 1155/74

		23	24	28 (B&W coax only)	28
	Flush-mounting back boxes with module housings (@)	4 x 1155/62	4 x 1155/62	4 x 1155/62	3 x 1155/63
	Cases with hood (@)	-	-	-	3 x 1155/313
	Pushbutton modules	5 x 1155/14 + 1155/13	6 x 1155/14	7 x 1155/14	7 x 1155/14
	Frames	4 x 1155/92 (♦)	4 x 1155/92 (♦)	4 x 1155/92 (♦)	3 x 1155/93 (∗)
	Blank module / Directory module	- / -	- / -	- / -	- / -
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70	1755/70	1755/80	1755/70
	Colour camera modules (#)	1755/40	1755/40	-	1755/40
	Door unit modules	1155/20	1155/20	-	1155/20
5 WIRE	Camera modules (B&W only)	1755/30A	1755/30A	-	1755/30A
	Door unit modules	1155/30	1155/30	-	1155/30
	Conversation privacy device	6 x 1155/74	3 x 1155/74	-	7 x 1155/74

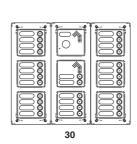
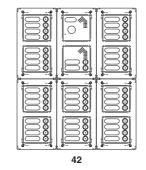
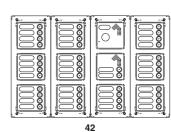
K-STEEL MODULAR VANDAL-PROOF PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(#) alternatives
(@) alternatives

30

42

42

		30		42		42	
	Flush-mounting back boxes with module housings (@)	3 x 1155/63		12 x 1155/62		4 x 1155/63	
	Cases with hood (@)	3 x 1155/313		-		4 x 1155/313	
	Pushbutton modules	7 x 1155/14		10 x 1155/14		10 x 1155/14	
	Frames	3 x 1155/93 (*)		6 x 1155/92 (♦)		4 x 1155/93 (*)	
	Blank module / Directory module	-	-	-	-	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/70		1755/70		1755/70	
	Colour camera modules (#)	1755/40		1755/40		1755/40	
	Door unit modules	1155/22		1155/22		1155/22	
5 WIRE	Camera modules (B&W only)	1755/30A		1755/30A		1755/30A	
	Door unit modules	1155/32		1155/32		1155/32	
	Conversation privacy device	7 x 1155/74		10 x 1155/74		10 x 1155/74	

44
(B&W coax only)

		44 (B&W coax only)	
	Flush-mounting back boxes with module housings (@)	6 x 1155/62	
	Cases with hood (@)	-	
	Pushbutton modules	11 x 1155/14	
	Frames	6 x 1155/92 (♦)	
	Blank module / Directory module	-	-
WIRE COAX SYSTEM	B&W camera modules (#)	1755/80	
	Colour camera modules (#)	-	
	Door unit modules	-	
5 WIRE	Camera modules (B&W only)	-	
	Door unit modules	-	
	Conversation privacy device	-	

PANELS
Domus-Aura

DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

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DOMUS AURA ARTISTIC PANEL

Domus Aura artistic panel combines elegant design and top quality materials. The front plate is made of “super mirror” finish stainless steel. The frames, buttons and name tags and made of ion-treated brass (PVD) to prevent oxidation and make the device weatherproof.
Two versions are available: one row (from 1 to 6 buttons) and two rows (from 4 to 20 buttons).
The panels in this range can be used in door phone and video door phone systems; they are suitable for retrofitting existing systems.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Faceplate protrusion from wall: **9 mm**
Flush-mounting depth
(1 or 2 button video door phone configuration): **56mm**
Flush-mounting depth (other configurations): **55mm**

Front treatment: **“super mirror” stainless steel**
Frame and button treatment: **ion-plated brass**
Urmet trademark: **on front plate**
Total pushbutton stroke: **>4 mm**
Pushbutton free stroke: **>2,4 mm**

Isolation voltage between contacts
(1 or 2 button video door phone configuration): **63Vac**
Isolation voltage between contacts (other configurations): **500Vac**

Max. break current: **2 Aac**

Name tag lighting: **green LED diodes**
Temporary name tags: **Plexiglas**

Max. conductor cross-section for
button and lighting terminals: **1.5 mm²**

Corrosion: **As per DIN 5342/64**
Test duration: **16 hours**
Temperature: **35°C**

WARNING: do not use brass cleaners! Polish with a soft dry cloth.

CONFIGURATION

Domus Aura artistic panel may be used:
- to make new 4+n wire (with traditional or electronic call) and 1+1 wire door phone systems;
- to make new coax and 5 wire video door phone systems;
- to retrofit existing door phone systems fitting 625 aluminium or 625-A artistic panels;
- to retrofit coax video door phone systems fitting Kombi panels with 1 or 2 call buttons.

All versions are complete with:
- Flush-mounting box with green LED diode name tag lights
- Brass and temporary name tags
- Tamperproof screws and screwdriver.

PANELS

All Domus Aura panels are provided with door unit set-up. The following models are available:

Door phone panels with one row of buttons:

With 1 call button (*)	**Ref. 1110/101**
With 3 call buttons (*)	**Ref. 1110/102**
With 3 call buttons	**Ref. 1110/103**
With 4 call buttons	**Ref. 1110/104**
With 5 call buttons	**Ref. 1110/105**
With 6 call buttons	**Ref. 1110/106**

Door phone panels with two rows of buttons:

With 4 call buttons	**Ref. 1110/204**
With 6 call buttons	**Ref. 1110/206**
With 8 call buttons	**Ref. 1110/208**
With 10 call buttons	**Ref. 1110/210**
With 12 call buttons	**Ref. 1110/212**
With 14 call buttons	**Ref. 1110/214**
With 16 call buttons	**Ref. 1110/216**
With 18 call buttons	**Ref. 1110/218**
With 20 call buttons	**Ref. 1110/220**

Video door phone panels with one row of buttons:

With 1 call button (**)	**Ref. 1710/101**
With 2 call buttons (**)	**Ref. 1710/102**
With 3 call buttons	**Ref. 1710/103**
With 4 call buttons	**Ref. 1710/104**
With 5 call buttons	**Ref. 1710/105**
With 6 call buttons	**Ref. 1710/106**

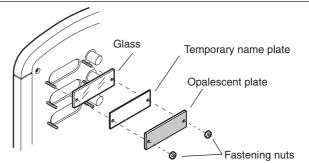
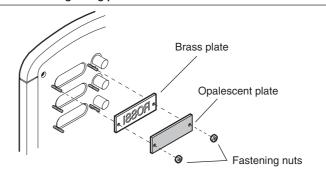
Video door phone panels with two rows of buttons:

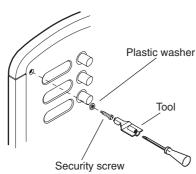
With 4 call buttons	**Ref. 1710/204**
With 6 call buttons	**Ref. 1710/206**
With 8 call buttons	**Ref. 1710/208**
With 10 call buttons	**Ref. 1710/210**
With 12 call buttons	**Ref. 1710/212**
With 14 call buttons	**Ref. 1710/214**
With 16 call buttons	**Ref. 1710/216**
With 18 call buttons	**Ref. 1710/218**
With 20 call buttons	**Ref. 1710/220**

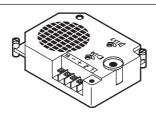
Possible configurations: (*) “4+n” wire door phone systems only; (**) coax video door phone systems only.

NAME PLATE ASSEMBLY

Domus Aura artistic panels are provided with two types of name tags: cardboard tags for temporary installation and brass tags for permanent installation. Fit the tags as shown below:

Temporary name plate assembly

Permanent tag fitting procedure

Security screws assembly

At the end of the installation procedure, fix the front of the panel to the flush-mounting box using the tamper-proof screws and the special screwdriver.

DOOR UNITS FOR 4+N WIRE SYSTEMS

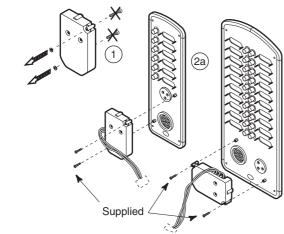
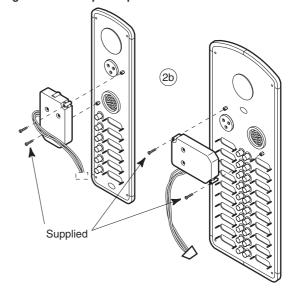
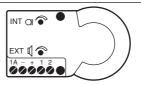
Door unit Ref. 5150/500

The amplified door unit Ref. 5150/500 is normally used in Domus Aura artistic panels for making "4+n" wire door phone systems and coax video door phones with more than two call buttons.

DESCRIPTION OF TERMINALS

Terminal	Description
1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
1	Traditional voice out (from speaker to door phone)
2	Voice in (from microphone to door phone)

Note: *use terminal "1A" in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal "1" for Mod. 1130 door phones.*

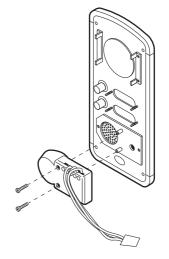
FITTING THE DOOR UNIT
Proceed as follows to fit the door unit Ref. 5150/500:
1. Remove the screws from the door unit.
2. Fasten the device to the plate as shown in figures 2a and 2b using the screws provided with the panel.

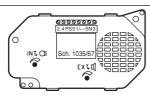
Fitting in door phone panels with 1 and 2 rows of buttons

Fitting in video door phone panels with 1 and 2 rows of buttons

Door Unit Ref. 824/500

The amplified door unit Ref. 824/500 must be used in coax video door phone panels with 1 and 2 call buttons (Ref. 1710/101 and Ref. 1710/102).
This characteristics of this device are similar to those of the Ref. 5150/500; this device is more compact and suitable for application in smaller spaces.

DESCRIPTION OF TERMINALS

Terminal	Description
1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
1	Traditional voice out (from speaker to door phone)
2	Voice in (from microphone to door phone)

Note: *use terminal "1A" in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal "1" for Mod. 1130 door phones.*

FITTING THE DOOR UNIT
Apply the door unit in the housing on the front of the panel using the screws provided for fastening.

DOOR UNITS FOR “1+1” WIRE SYSTEMS

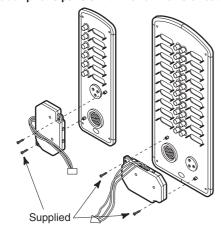
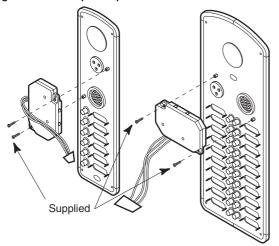
Door unit Ref. 1035/67

Fit door unit Ref. 1035/67 in the panel for speak-and-listen service in “1+1” wire door phone systems and 5 wire video door phone systems.

Note: *This type of door unit may be installed only in panels with more than 2 buttons.*

DESCRIPTION OF TERMINALS

2	Electrical lock control
4	Voice (conversation privacy device power)
PS	Tone generator output
5	(Electrical lock emergency relay control)
1/~	Door unit power earth
~	Door unit power
SN	Video power on for video door phone systems
3	Call buzzer (for 1130 door phones)

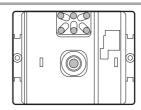
FITTING THE DOOR UNIT
Fit the door unit in the housing according to the panel model as shown in the following figures.
Fasten the door unit with the screws provided.

Fitting in door phone panels with 1 and 2 rows of buttons

Fitting in video door phone panels with 1 and 2 rows of buttons

AMPLIFICATION ADJUSTMENT

All loudspeaking units use two separate integrated circuits for amplification towards the outside and towards the inside and an electret microphone as transmitter unit.
Amplification in the two directions can be adjusted by means of two potentiometers accessible when the panel is open.
Transmission levels are calibrated at the factory. For this reason, they should only be adjusted when absolutely necessary (e.g. to eliminate Larsen feedback). In these cases, turn the volume adjustment potentiometer outwards to avoid worsening acoustic balance.

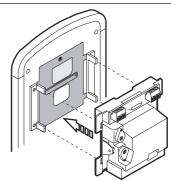
In order to adjust the external volume:
- turn the potentiometer **EXT**. clockwise to increase volume, counterclockwise to decrease it.

In order to adjust the internal volume:
- turn the potentiometer **INT**. clockwise to increase volume, counterclockwise to decrease it.

ADJUSTABLE CCD TV CAMERA UNIT FOR ARTISTIC BRASS PUSH BUTTON PANELS Ref. 1810/70

Easy to insert and extract from the front of the panel, the camera unit comprises the following components:
- fixed focus camera with built-in optics and shutter;
- possibility of adjusting camera lens vertically and horizontally;
- set of infrared LEDs for illuminating the subject;
- extractable connection terminal board.

TECHNICAL SPECIFICATIONS

Power voltage:	**18 Vcc Max.**
Maximum uptake:	**300 mA Max.**
Image sensor:	**CCD 1/3”**
Lens:	**standard**
Shutter:	**standard**
Focus:	**fixed**
Minimum light for acceptable pictures:	**0,2 Lux min.** **5 Lux recommended**
Coax video output:	**1Vpp composite**
Operating temperature range:	**from -10 to 50°C**

CAMERA UNIT Ref. 1810/70 ASSEMBLY IN ARTISTIC VIDEO DOOR PHONE PANEL FRONT

- Remove the extractable terminal strips from the TV camera unit module and connect these to the respective conductors coming from the system

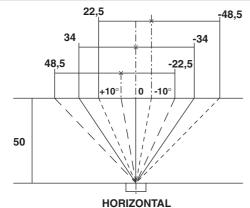
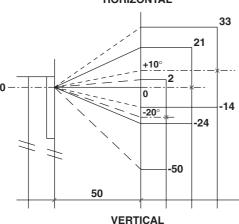
- Insert the door unit module in the dedicated housings.
- Insert the terminal strips in the respective housings of the of the TV camera unit and fasten the front panel to the embedding box.

DESCRIPTION OF TERMINALS

⦸	T	Camera on control in digital systems
⦸	R2	Camera power positive in digital systems
⦸	+TC	Camera power positive in analogic systems
⦸	R1	Camera power negative
⦸	B	Video signal earth
⦸	A	Video signal

IMAGING ANGLES

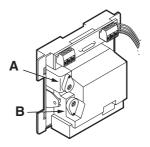
HORIZONTAL

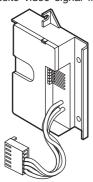
VERTICAL

Measurements in centimetres

CAMERA LENS DIRECTION ADJUSTMENT

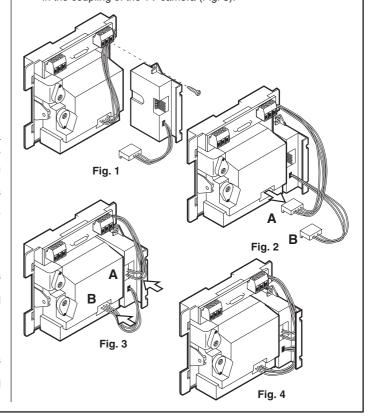
With this TV camera unit, it is possible to adjust the direction of the TV camera lens inside it using the specific adjustment screws A and B in order to overcome any installation flaws.
The adjustment along the vertical axis in relation to the position set is 10 ° up and 20 ° down.
Adjustment along the horizontal axis in relation the position set is 10 ° in both directions (left -right).

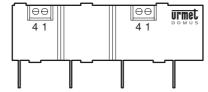
Orientation along the vertical axis
Turning screw A:
- in a clockwise direction (to the right) moves the pick-up field towards the top of the screen;
- in a counterclockwise direction (to the left) moves the pick-up field towards the bottom of the screen.

Orientation along the horizontal axis
Turning screw B:
- in a clockwise direction (to the right) moves the pick-up field towards the left the screen;
- in a counterclockwise direction (to the left) moves the pick-up field towards the right of the screen.

CAMERA ADAPTER Ref. 1742/13A FOR 5 WIRE SYSTEMS

The device is used in 5 wire and Bibus digital video door phone systems and to retrofit Kombi systems (825).
It transforms the composite video signal from the camera into two

different video signals (A and B).

ADAPTER INSTALLATION

1. Insert the adapter device to the side of the TV camera unit and secure it with the screw provided (Fig. 1).
2. Remove connector **A** from the TV camera module (Fig. 2)
3. Insert connector **A** in the coupling of the device and connector **B** in the coupling of the TV camera (Fig. 3).

4. Position the conductors inside the groove of the device (Fig. 4).

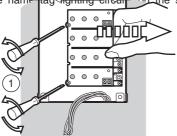
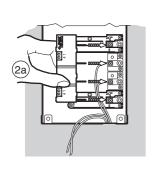
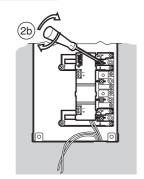
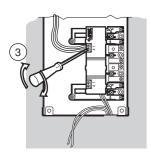
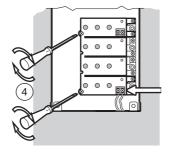
CONVERSATION PRIVACY DEVICE FOR “1+1”

WIRE SYSTEMS Ref. 1110/74

The conversation privacy boards Ref. 1110/74 must be joined inside in Domus Aura panels in 1+1 door phone systems and 5 wire video door phone systems.
These boards separate the call and voice circuits employing the same wire.

Each conversation privacy board is provided for 4 buttons.
It can also be used for 2 and 3 button configurations: break the printed circuit in the pre-cut area in this case.

NOTE: *The device may only be installed in panels with more than 2 buttons.*

CONVERSATION PRIVACY DEVICE INSERTION

1. Remove the name tag lighting circuits after removing the screws fastening them to the plastic supports.
2. Fasten the device terminals to the buttons terminals on the flush-mounting box.
3. Connect the wires to the terminals boards.
4. Re-arrange the name tag lighting circuits on the supports and

complete system connections.

CONVERSATION PRIVACY DEVICE FOR “4+n” WIRE SYSTEMS Ref. 5330/60

This device is used for conversation privacy function in 4+n door phone systems and coax video door phone systems, only.
Fit device Ref. 1131/5 in each 1131 or 1132 door phone for the function; fit the video door phones on the specific conversation privacy bracket (Ref. 1202/95 for Winflat+ or Ref. 1704/95 for Sentry+).

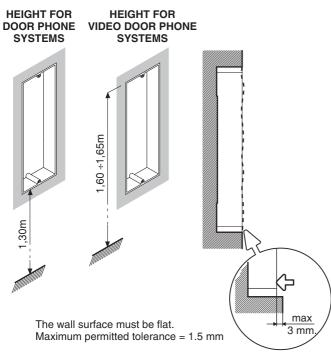
The device shuts down privacy from previous calls and consequently ensures total privacy also if a door phone is forgotten off hook.

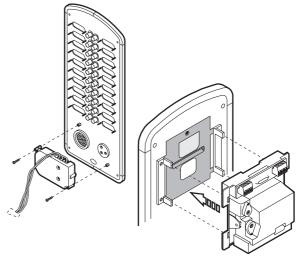
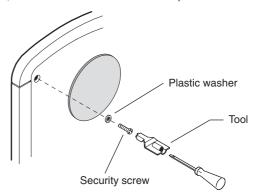
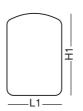
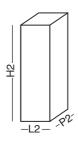
All devices are normally deactivated (no conversation is heard when the handset is picked up): only the device called by the panel may start a conversation with the caller; no other device can take or intercept the

call.

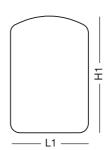
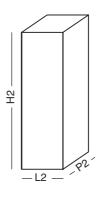
The device must be fastened to the flush-mounting box with the strip of two-sided adhesive tape provided.

DOMUS AURA PANEL INSTALLATION

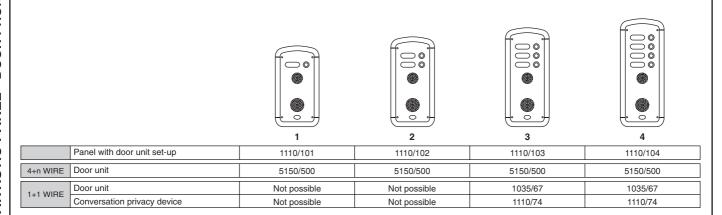
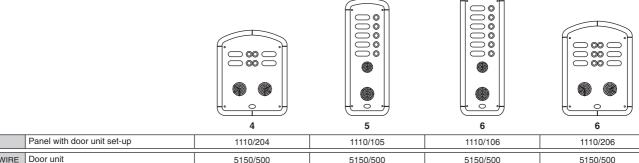
The wall surface must be flat.
Maximum permitted tolerance = 1.5 mm

- Arrange the hole (either on the side or bottom of the flush-mounting box) to let the wires through.
- Protect the front frame fastening holes with the adhesives provided.
- Fit the flush-mounting box in the wall as shown below.

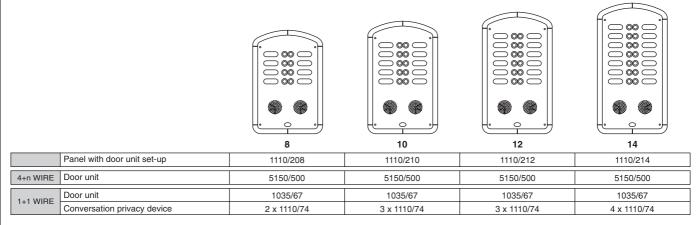
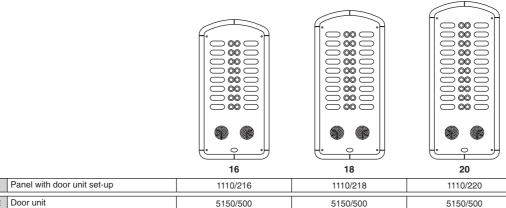
- Connect the panel wiring according to the following procedure:
  1) Loosen printed circuit fastening screws.
  2) Remove printed circuit from supports.
  3) Connect wires to respective button terminals.
  4) Reposition printed circuit and fasten with the previously loosened

screws.
  5) Connect power wires (~12) to printed circuit.
- Fasten the door unit and the camera (where relevant) to the front frame; make the electrical connections required.

CODE	DESCRIPTION		Front dimensions (mm)		Embedding box dimensions (mm)		
	Artistic door phone push-button panel		L1	H1	L2	H2	P2
	Buttons	Risers					
1110/101	1	1	120	260	89	214	55
1110/102	2	1					
1110/103	3	1		306		256	
1110/104	4	1	135	334	110	284	55
1110/105	5	1		362		312	
1110/106	6	1		390		340	
1110/204	4	2		292		228	
1110/206	6	2					
1110/208	8	2		348		284	
1110/210	10	2					
1110/212	12	2	216	376	186	312	55
1110/214	14	2		404		340	
1110/216	16	2		432		368	
1110/218	18	2		460		396	
1110/220	20	2		488		424	

- Fasten the front to the embedding box with the security screws and washers provided.

ARTISTIC DOOR PHONE PUSH-BUTTON PANEL

CODE	DESCRIPTION		Front dimensions (mm)		Embedding box dimensions (mm)		
	Artistic video door phone push-button panel		L1	H1	L2	H2	P2
	Buttons	Risers					
1710/101	1	1	125	250	118	204	56
1710/102	2	1					
1710/103	3	1		390		340	
1710/104	4	1	135	418	110	368	55
1710/105	5	1		446		396	
1710/106	6	1		474		424	
1710/204	4	2		376		312	
1710/206	6	2		404		340	
1710/208	8	2		432		368	
1710/210	10	2		460		396	
1710/212	12	2	216	488	186	424	55
1710/214	14	2		516		452	
1710/216	16	2		544		480	
1710/218	18	2		572		508	
1710/220	20	2		600		536	

DOMUS AURA ARTISTIC PANEL
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		1	2	3	4
	Panel with door unit set-up	1110/101	1110/102	1110/103	1110/104
4+n WIRE	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRE	Door unit	Not possible	Not possible	1035/67	1035/67
	Conversation privacy device	Not possible	Not possible	1110/74	1110/74

		4	5	6	6
	Panel with door unit set-up	1110/204	1110/105	1110/106	1110/206
4+n WIRE	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRE	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation privacy device	1110/74	2 x 1110/74	2 x 1110/74	2 x 1110/74

		8	10	12	14
	Panel with door unit set-up	1110/208	1110/210	1110/212	1110/214
4+n WIRE	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRE	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation privacy device	2 x 1110/74	3 x 1110/74	3 x 1110/74	4 x 1110/74

		16	18	20
	Panel with door unit set-up	1110/216	1110/218	1110/220
4+n WIRE	Door unit	5150/500	5150/500	5150/500
1+1 WIRE	Door unit	1035/67	1035/67	1035/67
	Conversation privacy device	4 x 1110/74	5 x 1110/74	5 x 1110/74

DOMUS AURA ARTISTIC PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		1	2	3	4
	Panel with door unit set-up	1710/101	1710/102	1710/103	1710/104
	Camera unit	1810/70	1810/70	1810/70	1810/70
WIRE COAX SYSTEM	Door Unit	824/500	824/500	824/500	824/500
5 WIRE	Video signal adapter	Not possible	Not possible	1742/13A	1742/13A
	Door Unit	Not possible	Not possible	1035/67	1035/67
	Conversation privacy device	Not possible	Not possible	1110/74	1110/74

		4	5	6	6
	Panel with door unit set-up	1710/204	1710/105	1710/106	1710/206
	Camera unit	1810/70	1810/70	1810/70	1810/70
WIRE COAX SYSTEM	Door Unit	824/500	824/500	5150/500	5150/500
5 WIRE	Video signal adapter	1742/13A	1742/13A	1742/13A	1742/13A
	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation privacy device	1110/74	2 x 1110/74	2 x 1110/74	2 x 1110/74

		8	10	12	14
	Panel with door unit set-up	1710/208	1710/210	1710/212	1710/214
	Camera unit	1810/70	1810/70	1810/70	1810/70
WIRE COAX SYSTEM	Door Unit	824/500	824/500	5150/500	5150/500
5 WIRE	Video signal adapter	1742/13A	1742/13A	1742/13A	1742/13A
	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation privacy device	2 x 1110/74	3 x 1110/74	3 x 1110/74	4 x 1110/74

DOMUS AURA ARTISTIC PANEL
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		16	18	20
	Panel with door unit set-up	1710/216	1710/218	1710/220
	Camera unit	1810/70	1810/70	1810/70
WIRE COAX SYSTEM	Door Unit	824/500	824/500	5150/500
5 WIRE	Video signal adapter	1742/13A	1742/13A	1742/13A
	Door Unit	1035/67	1035/67	5 x 1035/67
	Conversation privacy device	4 x 1110/74	5 x 1110/74	1110/74

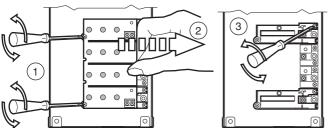
ARTISTIC VIDEO DOOR PHONE PUSH-BUTTON PANEL
RETROFITTING ALUMINIUM PANELS Mod. 625 AND ARTISTIC PANELS Mod. 625/A

		Push-button panel		
Risers	Buttons	Domus Aura	625	Artistiche Mod. 625A
1	1	1110/101	7708/1	7881/1
	2	1110/102	7708/2	7881/2
	3	1110/103	7701/3	7881/3
	4	1110/104	7701/4	7881/4
	5	1110/105	7701/5	7881/5
	6	1110/106	7701/6	7881/6
2	4	1110/204	7702/4	7882/4
	6	1110/206	7702/6	7882/6
	8	1110/208	7702/8	7882/8
	10	1110/210	7702/10	7882/10
	12	1110/212	7702/12	7882/12
	14	1110/214	7702/14	7882/14
	16	1110/216	7702/16	7882/16
	18	1110/218	7702/18	7882/18
	20	1110/220	7702/20	7882/20

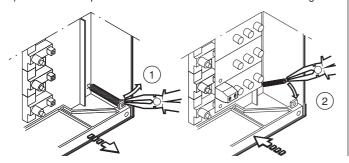
The Domus-Aura door phone 1-2 rows front can be fi tted in systems with aluminium push-button panels Mod. 625 or artistic push-button panels Mod. 625-A using the same products in the system.
The following table shows the correspondence between various panels given the same number of buttons and rows..
(grey) replacement is possible only in 4+n systems without conversation privacy.

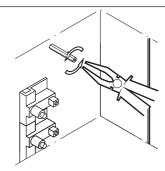
INSTALLATION

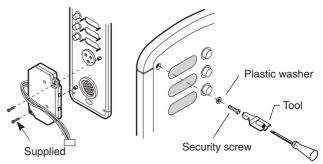
1 ROW PANEL FLUSH-MOUNTING BOX

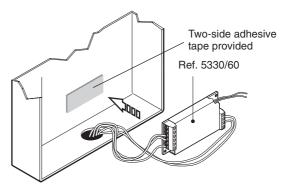
1) Remove the bulb holders from the walled embedding box after disconnect the wires from the terminals.
2) Remove the button light printed circuit from the flush-mounting box

provided with the Domus Aura panel as shown in the drawings and fasten in the walled flush-mounting box..
3) Connect the wires from the system to the call button terminals.
4) Fasten the light printed circuit to the supports as shown in the drawings and connect power wires.

2 ROW PANEL FLUSH-MOUNTING BOX

1) Remove the plate and buttons from the walled embedding box

after disconnecting the wires from the terminals as shown in the drawing.
2) Replace with that in the embedding box provided with the push-button panel.
3) Connect the call button terminals and the light printed circuit.

DOOR UNIT

1) Remove the door unit walled embedding box without disconnecting the terminal wires.
2) Remove the two door unit fastening columns from the walled flush-mounting box with the help of a tool.

DOMUS-AURA DOOR PHONE PUSH-BUTTON PANEL FRONT

Proceed as follows after inserting the name plates:
1) Fasten the door unit to the front as shown in the drawing, using the screws provided with the push-button panel.
2) Fasten the front to the embedding box with the security screws and washers provided (see figure).

RETROFITTING ON 4+N DOOR PHONE SYSTEMS

WITH PRIVACY FUNCTION

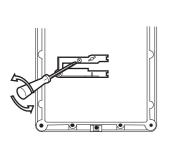
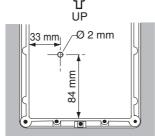
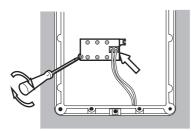
For retrofitting 4+n door phone systems with conversation privacy Ref. 5330/60, fasten the device to the box using the strip of two-sided adhesive tape provided.

RETROFITTING COAX 2 MODULE KOMBI VIDEO PANELS

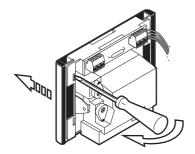
The Domus Aura 1-2 button panel front (ref. 1710/101-/102) can be fitted in coax systems with Kombi panels of equal capacity using the products present in the system.
Proceed as follows.

INSTALLATION

EMBEDDING BOX

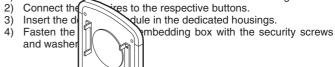
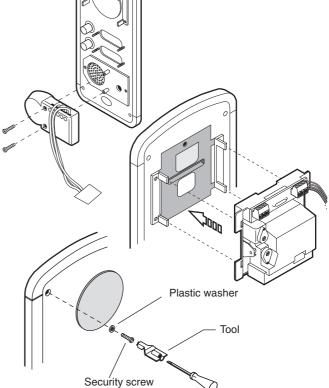
1) Remove the button light printed circuit support from the embedding box provided with the push-button panel.
2) Drill a hole (diameter 2 mm as shown in the drawings, if not

present) in the previously walled embedding box and fasten the button light printed circuit with the screw previously used in the embedding box provided.
3) Fasten the printed circuit to the support as shown in the drawing and connect to the system.

DOOR UNIT

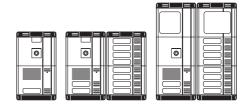
1) Loosen the screws fastening the door unit to the button module to allow removal without disconnecting the wires from the terminals.

CAMERA UNIT MODULE

1) Loosen the camera unit module from the Kombi module holder frame.
2) Remove the camera unit module aluminium front.

DOMUS-AURA VIDEO PUSH-BUTTON PANEL FRONT

Proceed as follows after inserting the name plates:
1) Fasten the door unit to the front as shown in the drawing.
2) Connect the ... ires to the respective buttons.
3) Insert the d... dule in the dedicated housings.
4) Fasten the ... embedding box with the security screws and washer

PANELS

kombi®

DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

SECTION 2d CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - PRODUCT TECHNICAL MANUAL

KOMBI PUSH BUTTON PANEL

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KOMBI PUSH BUTTON PANEL

The system is based on extruded aluminum modules that can be fitted on special frames complete with embedding box. The embedding boxes can be coupled horizontally by means of plastic spacers; through this system it is possible to compose push button panels for all types and configurations, with the smallest number of components, hence less need for stock management; thus, the advantage is reflected on the wholesaler and on the installer.

Kombi panels can be used in the following system types:
- electronic or traditional call 4+n wire door phone systems;
- 1+1 wire door phone systems;
- B&W and colour coax video door phone systems;
- B&W and colour 5 wire video door phone systems;
- Duo free-hands door phone systems (see respective section);
- Easivoice door phone systems.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Front width of one row with frame:	**126 mm**
Front projection from wall:	**12.5 mm**
Flush mounting box depth:	**45 mm**
Front module finish:	**anodised aluminium**
Urmet brand:	**on module holder frame**

Button body

Isolation voltage between contacts:	**50 V eff**
Max. button cut-off current:	**2 A eff**
Name tag dimensions:	**57 x 15.5 mm**
Tag and button light:	**Tubular lamp bulb 15V 3W**
Tag protection:	**plexiglas**
Max. wire cross-section area for button and light terminals:	**1.5 mm²**
Degree of protection:	**IP40 as per CEI 70.1 standard**
Corrosion:	**as per DIN 5342/64 standard**
Test duration:	**16 hours**
Test temperature range:	**35°C**

CONFIGURATION

The system may be used in the following versions:
- **wall embedding;**
- **wall surface mounting.**

The system is made of the following units:
- **modules;**
- **module frames complete with embedding boxes;**
- **accessories.**

TECHNICAL FEATURES OF THE MODULES

The different modules are assembled by fitting them in the columns of the module frames.
The modules are supplied in the following versions:
- Arranged for loudspeaking unit;
- With push buttons only;
- Special types.
- With camera unit

The modules have a natural anodised aluminium front panel.

The modules are fitted with 15V, 3W slim line bulbs. They should be powered with 12 V a.c. For up to a maximum of two bulbs, the house phone power supply used in the system is sufficient; for a greater number, an adequate power transformer is required.

A 9000/230 transformer can power up to 5 lamps. The name tags can be replaced and inserted from the outside without needing to remove the panel front.

The control buttons are made of metal.
The stairs light relay push button is suitable for controlling a low-voltage circuit (max. 24 V).

The Kombi range includes single, double and triple modules which can be assembled according to needs. Module dimensions are:

Single module:	125 x 90 mm.
Double module:	125 x 180 mm. (1+1 wire door phone and 5 wire video door phone version)
Triple module:	125 x 270 mm. (5 wire colour video door phone version)

MODULES ARRANGED FOR LOUDSPEAKING UNIT

There are two groups of modules with door unit set-up to be used according to the required system.

The following module configurations are available:
- modules for 4+n wire door phone systems and coax wire video door phone systems:

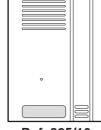
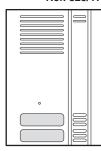
Without call key	**Ref. 825/210**
With 1 call key	**Ref. 825/211**
With 2 call keys	**Ref. 825/212**

Ref. 825/210

Ref. 825/211

Ref. 825/212

- double modules for 1+1 wire systems.

Without call key	**Ref. 825/15**
With 1 call key	**Ref. 825/16**
With 2 call keys	**Ref. 825/17**

Ref. 825/15

Ref. 825/16

Ref. 825/17

All modules with door unit set-up are provided with a button for controlling the staircase light relay (low voltage).

DESCRIPTION OF TERMINALS

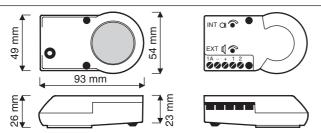
G/T=Call common

Switching on of the tag-holder lighting bulb

Stair light relay control key

NOTE: *the call button and name tag light terminals are not present in 825/210 and 825/15 models*

LOUDSPEAKING UNITS

LOUDSPEAKING UNIT Ref. 824/500

The amplified door unit Ref. 824/500 is particularly compact and normally fitted in Kombi modular panels Ref. 825 in 4+n wire door phone systems or coax video door phone systems.

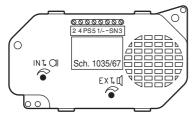
The loudspeaking unit shall be inserted in the Kombi module arranged for loudspeaking unit, locating it in the proper place. Fixing of the loudspeaking unit to the push button panel box fixing supports is made by means of proper screws.

DESCRIPTION OF TERMINALS

- 1 A Electronic voice out (from speaker to door phone)
- - Door unit power negative
- + Door unit power positive
- 1 Traditional voice out (from speaker to door phone)
- 2 Voice in (from microphone to door phone)

Note: *use terminal “1A” in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal “1” for Mod. 1130 door phones.*

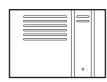
LOUDSPEAKING UNIT Ref. 1035/67

Fit door unit Ref. 1035/67 in the panel for speak-and-listen service in “1+1” wire door phone systems and 5 wire video door phone systems.

DESCRIPTION OF TERMINALS

- 2 Electrical lock control
- 4 Voice
- PS Electronic call two speaker
- 5 Electrical lock emergency relay control
- 1/~ Ground
- ~ Door unit 12Vac power
- SN Video power on for video door phone systems
- 3 Call buzzer (for Mod. 1130 door phones)

LOUDSPEAKING UNIT MODULES WITH BUILT-IN ELECTRONICS

The loudspeaking unit is already incorporated in these modules.
They make it possible to obtain a higher voice level than the Ref. 824/500 loudspeaking units which means they can be used in particularly noisy and disturbed environments. The higher level of amplification is made possible by the fact that, as the loudspeaking unit circuit is an integral part of the Kombi module, it has been possible to improve acoustic coupling of the transducers.
Due to problems of space, modules with integrated loudspeaking units do not have call buttons but are equipped with a single button for control of the stair light relay.
In the case of a fault, the entire module must be replaced.

The module is available in the following version:
- **Without call buttons** **Ref. 825/220**

These modules are suitable for assembly in 4+n wire door phone systems and coax wire video door phone systems.

DESCRIPTION OF TERMINALS

- - Door unit power negative
- 2 Voice in (from microphone to door phone)
- + Door unit power positive
- 1A Electronic voice out (from speaker to door phone)
- 1 Traditional voice out (from speaker to door phone)

Note: *use terminal “1A” in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal “1” for Mod. 1130 door phones.*

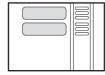
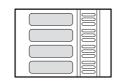
AMPLIFICATION ADJUSTMENT

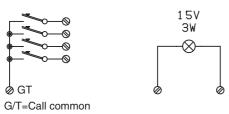
All loudspeaking units use two separate integrated circuits for amplification towards the outside and towards the inside and an electret microphone as transmitter unit. Amplification in the two directions is adjustable using two trimmers accessible after open the frame.
As transmission levels are factory set to optimum values, it is advisable to modify these only if absolutely necessary (for example: elimination of “whining” or Larsen effect). In these cases, to avoid downgrading of acoustic equilibrium, it is advisable to use the trimmer that adjusts volume towards the outside.
To adjust external volume:
- use the trimmer identified with **EXT.** turning this in a clockwise direction to increase volume or in a anti-clockwise direction to reduce this.

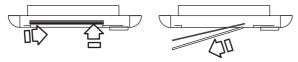
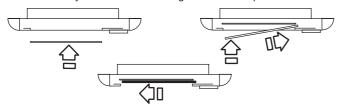
To adjust internal volume:
- use the trimmer identified with **INT.** turning this in a clockwise direction to increase volume or in a anti-clockwise direction to reduce this.

PUSH BUTTON MODULES

The modules are supplies in the following versions:

- **With 1 key** **Ref. 825/201**
- **With 2 keys** **Ref. 825/202**

- **With 3 keys** **Ref. 825/203**

- **With 4 keys** **Ref. 825/204**

DESCRIPTION OF TERMINALS

NAME TAG REPLACEMENT

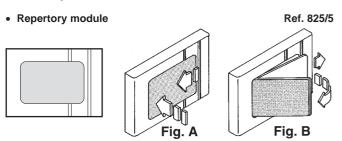
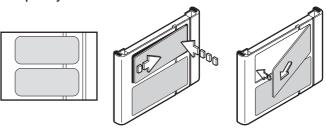
The name tag can be inserted from the out-side; take off the outer plate by pressing the right-hand side and pushing outwards. This operation releases the plexiglass plate (57x 15.5 x 1.2 mm) and the mylar card (0.1 mm thick). The plexiglass plate will be used for the definitive inscription of the corresponding name, while the mylar card can be used for an immediate temporary inscription.

Do the contrary to reset the name tag and the outer plate.

SPECIAL MODULES

The special modules are of two types:
- **Repertory modules**
- **Blank module**

REPERTORY MODULES

The repertory modules are usually used to indicate the house number or to write various information.

The repertory tag can be inserted from out-side only; take off the plate by pressing the left side and pushing inwards (**Fig. A**). See **Fig. B** to reset the tag.

- **Repertory module** **Ref. 825/5**

- **Repertory module for 2 to 16 names** **Ref. 825/550**

BLANK MODULES Ref. 825/9

This module is used to fill in spaces which are not used in modular applications as required.

The same module can be used for other application installing, e.g. electrical controls, burglar alarms and automatic gates.

KOMBI CAMERA UNIT

The following camera unit module versions are available:

Coax system versions:

B&W 50 Hz without door unit	**Ref. 825/70**
B&W 60 Hz without door unit	**Ref. 825/79**
Colour without door unit	**Ref. 1855/70**

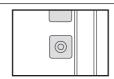
5-wire system versions:

With door unit, B&W, without buttons	**Ref. 955/20**
With door unit, B&W, with 1 button	**Ref. 955/21**
With door unit, B&W, with 2 buttons	**Ref. 955/22**
With door unit, colour, without buttons	**Ref. 1855/20**
With door unit, colour, with 1 button	**Ref. 1855/21**
With door unit, colour, with 2 buttons	**Ref. 1855/22**

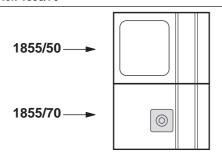
TECHNICAL SPECIFICATIONS

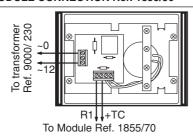
Power voltage:	**18 Vdc**
Maximum uptake:	**300 mAdc**
Image sensor:	**1/3” CCD**
Lens:	**standard**
Shutter:	**standard**
Focus:	**fixed**
Minimum light for acceptable pictures:	**0.2 lux** **5 Lux recommended**
Coax video output:	**1 Vpp composite**
5-wire video output:	**1 Vpp differential**
Operating temperature range:	**from -5 to 50°C**

COAX CAMERA UNIT

B&W CAMERA UNIT MODULE WITH ADJUSTABLE CCD CAMERA

Easy to insert or remove from embedding box, it includes:
- TV camera with optics and shutter incorporated; focus adjustment is fixed. No other lenses can be used;
- possibility of adjusting camera lens vertically and horizontally;
- lighting system consisting of a set of infrared leds for lighting of the person;
- terminal connection board

Two TV camera units are available:
- without door unit 50 Hz **Ref. 825/70**
- without door unit 60Hz (not available in Italy) **Ref. 825/79**

COLOUR DOOR CAMERA MODULE WITH ADJUSTABLE CCD CAMERA Ref. 1855/70

Features the same modular design as the black and white door camera unit. Additional space must be provided for the illuminator module, which must be installed as shown in figure.

LIGHTING MODULE CONNECTION Ref. 1855/50

Installation instructions

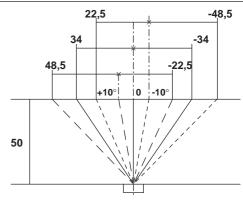
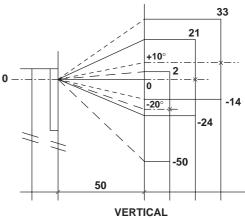
Ref. 1855/50 module has to be used with Ref. 1855/70 colour CCD TV camera unit with adjustable pan and tilt.
During installation, this function makes it possible to optimize the pick-up field.

COAX CAMERA UNIT TERMINAL BOARD

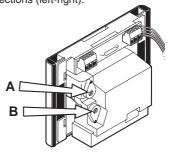
Terminal	Description
T	Camera on control in digital systems
R2	Camera power positive in digital systems
+TC	Camera power positive in analogic systems
R1	Camera power negative
V5	Video signal earth
V3	Video signal

IMAGING ANGLES

HORIZONTAL

VERTICAL

Measurements in centimetres

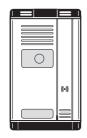
ADJUSTMENT OF TV CAMERA LENS ORIENTATION

The Kombi video outdoor station make it possible to adjust the orientation of the lens of the TV camera located inside this using specific adjustment screws, indicated as A and B in the figure below, in order to offset any imperfections as regards installation.
The adjustment along the vertical axis in relation to the position set is 10° up and 20° down.
The adjustment along the horizontal axis in relation to the position set is 10° in both directions (left-right).

Orientation along the vertical axis

If screw **A** is turned
- in a clockwise direction (to the right), the field framed is moved towards the bottom of the screen.
- in a counter clockwise direction (to the left), the field framed is moved to the bottom of the screen.

Orientation along the horizontal axis

Turning screw **B**:
- in a clockwise direction (to the right), the field framed is moved towards the left of the screen.
- in a counter clockwise direction (to the left), the field framed is moved to the right of the screen.

5 WIRE SYSTEM CAMERA UNIT

Ref. 955/20

Ref. 955/21

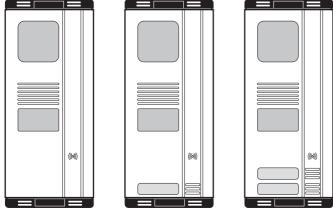
Ref. 955/22

Three models are available:

- TV camera module without keys **Ref. 955/20**
- TV camera module with 1 key **Ref. 955/21**
- TV camera module with 2 keys **Ref. 955/22**

All the models are organized according to the two-modules Kombi structure and are furnished complete with:

- TV camera with C.C.D. solid-state sensor, with non-interchangeable optics and fixed focus adjustment;
- infrared LED subject illumination device;
- control electronics and loudspeaking unit;
- call secrecy (only for the call keys present);
- bulb to illuminate the name-tag holders (excluding the 955/20 model).

COLOUR CCD AND TRANSMISSION CAMERA UNIT

Ref. 1855/20 Ref. 1855/21 Ref. 1855/22

Three models are available:

- TV camera module without keys **Ref. 1855/20**
- TV camera module with 1 key **Ref. 1855/21**
- TV camera module with 2 keys **Ref. 1855/22**

All the models are organized according to the three-module Kombi structure and are furnished complete with:

- CCD color TV camera with non-interchangeable optics and fixed focus;
- 12V 5W halogen light for illuminating the subject.
- control electronics and voice stage;
- call secrecy only for the call keys present;
- name tag with respective light (Ref. 1855/21 and Ref. 1855/22 only).

The entire system, excluding the halogen bulb, is powered by the Ref. 789/5B video power supply.
The Ref. 9000/230 with 12 Vac output safety transformer must be used to power the halogen bulb.

DESCRIPTION OF TERMINALS

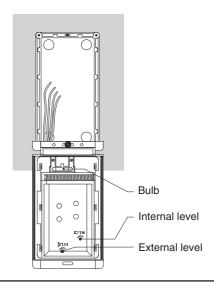
Terminal	Description
PS	Tone generator output
~	Door unit power
1/~	Power ground
1/~	Power ground
SN	Video power on control signal
5	(Electrical lock emergency relay control)
SE	Electrical lock
F	Voice
4	Conversation privacy device power
C2	Call button (Ref. 955/22 and 1855/22 only)
C1	Call button (Ref. 955/21, 955/22, 1855/21 and 1855/22 only)
R1	Camera power negative
+TC	Camera power positive
B	Differential video signal output (positive)
A	Differential video signal output (negative)
LA	Lamp power (colour camera only)
LA	Lamp power (colour camera only)

IMAGING ANGLES

Measurements in centimetres

The frame angle of the camera is fixed. No adjustments are possible.

CONTROLS AND ADJUSTMENTS

Internal and external sound levels can be adjusted using the related volume trimmers on the rear cover.
The time in which the monitor lights up, following a call, may be adjusted between 45” and 180” using the specific trimmer on the video power supply.
The TV camera module has a built-in secrecy circuit, one for each button present.
To illuminate the name-tag holders, connect the bulb to the 12 V~ power supply (terminals ~, 1/~).

KOMBI PUSH BUTTON PANEL

PANELS

MODULE FRAMES COMPLETE WITH EMBEDDING BOX

The frame are supplied complete with head-stocks and columns to assemble the different modules.
The embedding box is 45 mm deep and after fitting the modules, they protrude from the wall by 12.5 mm.
The embedding boxes are joined to one another by means of special spacers to form push button panels with various configurations.
The frames are supplied in the following versions:

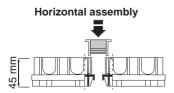
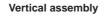
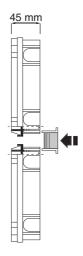
- For 1 module **Ref. 825/21**
- For 2 modules **Ref. 825/22**
- For 3 modules **Ref. 825/23**
- For 4 modules **Ref. 825/24**

Note: *Two-, three- and four-module flush mounting back boxes and frames are supplied together with two type DST169 spacer grommets which can be used to join back boxes vertically where necessary.*

ASSEMBLING EMBEDDING BOXES

The embedding boxes are assembled together using special spacers which also serve as wire conduit. If accessories are to be fitted, such as embedding frame, hood cover, surface mounted housing with hood cover, the maximum number of boxes that can be joined horizontally is three. If accessories are not used for embedded version, an unlimited number of embedding boxes can be used, to be joined together, both horizontally and vertically, by means of special wire conduit spacers. Said spacers are empty internally, to allow wire passage from a box to another one.

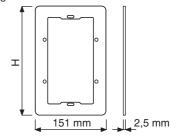
Horizontal assembly

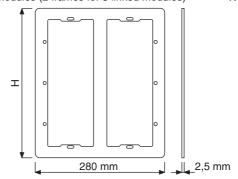
Vertical assembly

FLUSH-MOUNTED PANEL ACCESSORIES

WALL COVER FRAME

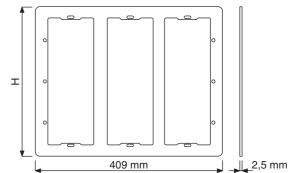
The frames are used to cover possible irregularities of the wall in the area surrounding the push button panel; they are inserted between the modules and the wall. Special rubber sealings prevent water from leaking in.

The following anodised aluminium frames are provided:

- For 1 module **Ref. 825/31**
- For 2 modules **Ref. 825/32**
- For 3 modules **Ref. 825/33**
- For 4 modules **Ref. 825/404**

H is 148, 238, 328, and 418 mm for 1, 2, 3 and 4 module versions, respectively.

- For 4 modules (2 frames for 2 linked modules) **Ref. 825/34**
- For 6 modules (2 frames for 3 linked modules) **Ref. 825/36**

- For 8 modules (2 frames for 4 linked modules) **Ref. 825/408**

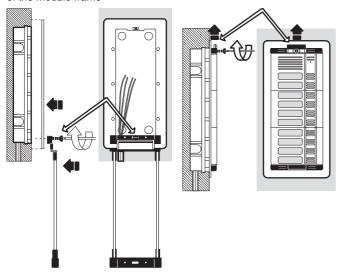
H is 238, 328, and 418 mm for 2, 3 and 4 module versions, respectively.

- For 9 modules (3 frames for 3 linked modules) **Ref. 825/39**

- For 12 modules (3 frames for 4 linked modules) **Ref. 825/412**

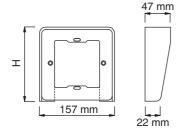
H is 328, and 418 mm for 3 and 4 module versions, respectively.

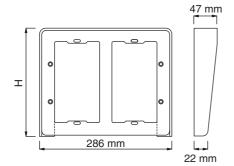
Sinthesi wall cover frames can be used instead of those in the Kombi range. Code correspondence is shown in the table in **Appendix A** of this section.

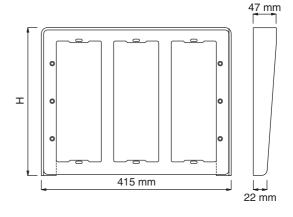
INSTALLATION

Once the embedding box has been walled, position the wall embedding frame and lock it by fastening the lower headstock of the module frame.
The frame is then fixed completely by fastening the upper headstock of the module frame

RAIN HOOD WITH WALL COVER FRAME

They are useful to make the panel installation weatherproof.
The hood covers are inserted between the modules and the wall.
They are supplied in the following versions:

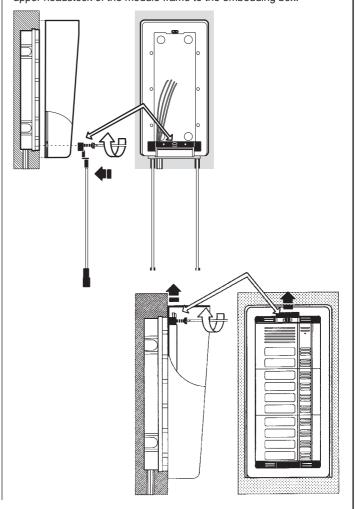
- For 1 module **Ref. 825/41**
- For 2 modules **Ref. 825/42**
- For 3 modules **Ref. 825/43**
- For 4 modules **Ref. 825/441**

H is 151, 241, 331, and 421 mm for 1, 2, 3 and 4 module versions, respectively.

- For 4 modules (2 frames for 2 linked modules) **Ref. 825/44**
- For 6 modules (2 frames for 3 linked modules) **Ref. 825/46**
- For 8 modules (2 frames for 4 linked modules) **Ref. 825/442**

H is 241, 331, and 421 mm for 2, 3 and 4 module versions, respectively.

- For 9 modules (3 frames for 3 linked modules) **Ref. 825/49**
- For 12 modules (3 frames for 4 linked modules) **Ref. 825/443**

H is 331, and 421 mm for 3 and 4 module versions, respectively.

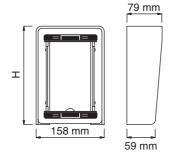
Sinthesi rain hoods wall cover frames can be used instead of those in the Kombi range. Code correspondence is shown in the table in **Appendix B** of this section.

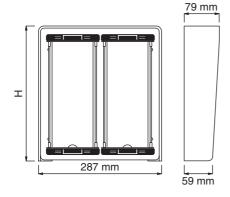
INSTALLATION

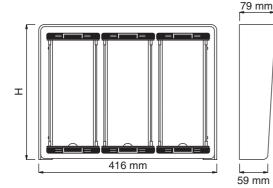
Once the embedding box has been walled, position the hood cover and lock it by fastening the lower headstock of the module frame.
To avoid buckling and to compensate the difference in the lower support level of the hood cover, fasten in the embedding box lower side the proper two screws up to locate the head-stock about 2 mm out of the wall. The hood cover is then fixed completely by fastening the upper headstock of the module frame to the embedding box.

WALL-MOUNTED PANEL ACCESSORIES

CASE AND HOOD WITH FRAME AND MODULE HOLDER

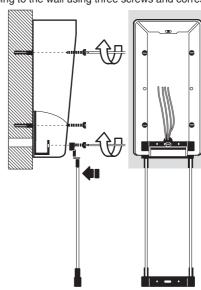
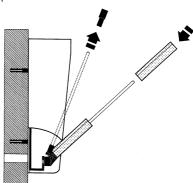
Cases and hoods protect the panel from the weather and may be used for installation on walls without flush-mounted parts.
The following versions are provided (with frame and module holder):

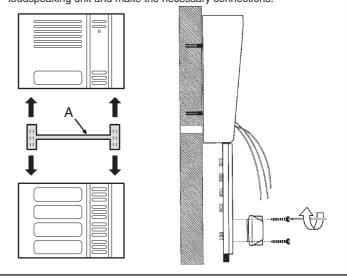
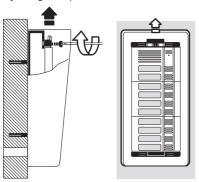
- For 1 module **Ref. 825/51**
- For 2 modules **Ref. 825/52**
- For 3 modules **Ref. 825/53**
- For 4 modules **Ref. 825/541**

H is 151, 241, 331, and 421 mm for 1, 2, 3 and 4 module versions, respectively.

- For 4 modules (2 frames for 2 linked modules) **Ref. 825/54**
- For 6 modules (2 frames for 3 linked modules) **Ref. 825/56**
- For 8 modules (2 frames for 4 linked modules) **Ref. 825/542**

H is 241, 331, and 421 mm for 2, 3 and 4 module versions, respectively.

- For 9 modules (3 frames for 3 linked modules) **Ref. 825/59**
- For 12 modules (3 frames for 4 linked modules) **Ref. 825/543**

H is 331, and 421 mm for 3 and 4 module versions, respectively.

INSTALLATION

The housing is provided complete with embedding frame and module frame.
Fix the housing to the wall using three screws and corresponding plugs.

Open the hole in the lower area of the housing for passing the cables through. Fasten the lower headstock of the module frame, pinching the frame between the housing and headstock.
Take off the upper headstock and insert the needed modules in the frame.

In the versions with 3 and 4 unit module frames, during assembly insert stiffener A between one module and the next; the stiffener is provided with the embedding boxes (2 for the 3-module version, 3 for the 4 module version).
Compact the different modules and refit the upper headstock. Fix the loudspeaking unit and make the necessary connections.

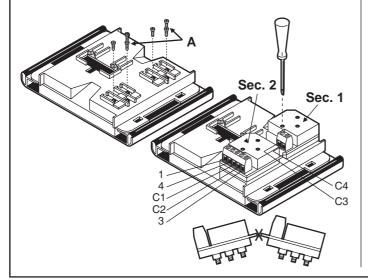
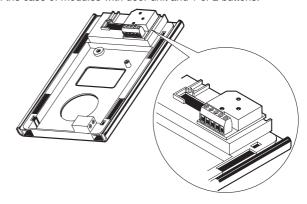
Close the plate and fix the upper headstock to the cover; the fastening screw is freed by lifting the special slider.

CONVERSATION PRIVACY DEVICE FOR “1+1” WIRE SYSTEMS Ref. 1035/74

Conversation privacy circuit boards Ref. 1035/74 must be inserted in the various modules with Kombi buttons in 1+1 wire door phone systems and 5 wire video door phone systems. Each board is sufficient for four buttons.
The number of secrecy boards to be used depends on system capacity.
When calculating the number of boards, take into account that the modules with TV camera Ref. 955/21, 955/22, 1855/21 and 1855/22 are already preset with 1 or 2 buttons and related secrecy boards.

The voice circuit of the called door phone or video door phone remains activated until the following call is made from the panel to another device. The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.

INSERTION OF THE SECRECY BOARDS

For insertion proceed as follows:
1. Remove screws **A** from the terminals of the Kombi module.
2. Rest the secrecy circuit so that the spacers of the container match the screw housings.
3. Fasten the secrecy circuit using the screws inserted inside the spacers.
4. Make the connections as indicated in the diagram. Wire 1 of the house phones must be connected directly to terminal 1/~ of the Loudspeaking unit.

Each call secrecy board is complete with 4 buttons. It can be used also for 2 buttons: in this case break the printed circuit as shown in Fig. 2 and use only **Section 2** (the one with 5 terminals).

The broken board must be arranged as shown in the following drawing in the case of modules with door unit and 1 or 2 buttons.

Important: connect the call wire to terminal C2 (not terminal C1) insingle button modules.

CONVERSATION PRIVACY DEVICE FOR “4+n” WIRE SYSTEMS Ref. 5330/60

This device is used for conversation privacy function in 4+n door phone systems and coax video door phone systems, only.
Fit device Ref. 1131/5 in each 1131 or 1132 door phone for the function; fit the video door phones on the specific conversation privacy bracket (Ref. 1202/95 for Winflat+ or Ref. 1704/95 for Sentry+).

The device shuts down privacy from previous calls and consequently ensures total privacy also if a door phone is forgotten off hook.
All devices are normally deactivated (no conversation is heard when the handset is picked up): only the device called by the panel may start a conversation with the caller; no other device can take or intercept the call.

The device must be fastened to the flush-mounting box or case with hood with two screws.
Considering its size, the device must be fitted in button modules or special modules.

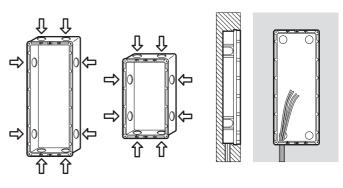
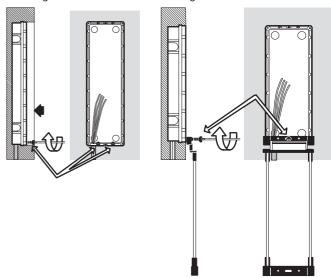
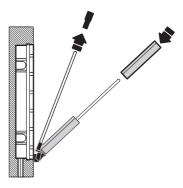
KOMBI PANEL INSTALLATION - FLUSH-MOUNTED VERSION

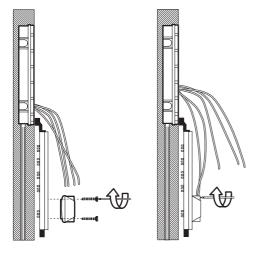
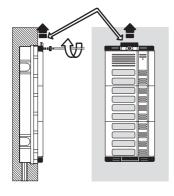
4+n wire module with door unit **1+1 wire module with door unit**

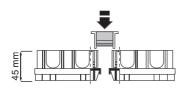
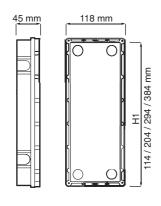
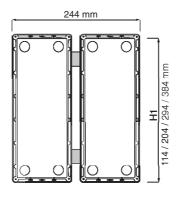
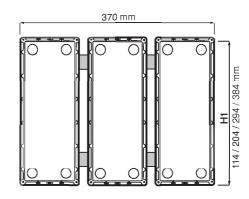
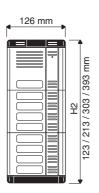
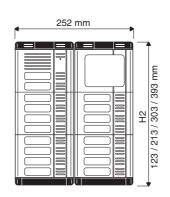
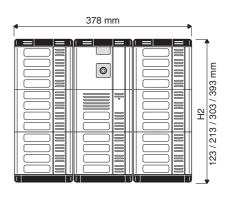
B/W Coax camera module **B&W 5 wire camera module**

Colour coax camera module **Colour 5 wire camera module**

In any case, consider the height shown in the figure for fastening the camera for correct installation of complex arrangement with several modules. The height refers to the door unit in door phone systems.

Before walling the embedding box, a hole (at the bottom or at the sides of the lower section) should be opened for passing the connection wires through.

The embedding box must be walled on the level with the wall surface and must not protrude. If the box is embedded too deeply, loosen the two screws (on the lower side of the box) in the special holes until the screw head is flush with the wall; this is to prevent subsequent distortion of the lower head stock of the module frame during the screwing of the same on the embedding box.

Once the embedding box has been fixed to the lower section of the module frame, take off the upper headstock and insert the required modules in the frame (the keys must all be positioned on the right-hand side).

In the versions with 3 and 4 unit module frames, during assembly insert stiffener A between one module and the next; the stiffe-ner is provided with the embedding boxes (2 for the 3-module version, 3 for the 4-module version).

Refit the upper headstock; fix the loudspeaking unit and make the necessary connections.

Close the front plate and fix the upper head-stock to the box (the fastening screw is freed by lifting the special slider).

FLUSH-MOUNTED VERSION

Note: *H1= 114, 204, 294, 384 indicates flush mounting height and H2= 123, 213, 303, 393 indicates to total height relative to 1, 2, 3 and 4 module versions.*

WALL-MOUNTED VERSION

Note: *H3 referred to the total height may differ according to the number of modules that the case may contain.*

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KOMBI PUSH BUTTON PANEL
4+n WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	-	-	-	-	825/203	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/21		825/21		825/22	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/31		825/31		825/32	
	Rain hood with wall cover frame (°)		825/41		825/41		825/42	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/51		825/51		825/52	

			4		5		6	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/211		825/212	
	Push button modules	Repertory module	825/204	-	825/204	-	825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/22		825/22		825/22	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/32		825/32		825/32	
	Rain hood with wall cover frame (°)		825/42		825/42		825/42	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/52		825/52		825/52	

			7		8		9	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/211	
	Push button modules	Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/33	
	Rain hood with wall cover frame (°)		825/43		825/43		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/53	

			10		11		12	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Push button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 2 x 825/204	-	3 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		2 x 825/22		2 x 825/22	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/34		825/34	
	Rain hood with wall cover frame (°)		825/43		825/44		825/44	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/54		825/54	

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KOMBI PUSH BUTTON PANEL
4+n WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			13		14		11	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	3 x 825/204	-	3 x 825/204	-	1 x 825/203 - 2 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/22		2 x 825/22		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/34		825/34		825/404	
	Rain hood with wall cover frame (°)		825/44		825/44		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/54		825/54		825/541	

			12		13		14	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/211		825/212	
	Push button modules	Repertory module	3 x 825/204	-	3 x 825/204	-	3 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		825/24		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/404		825/404	
	Rain hood with wall cover frame (°)		825/441		825/441		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/541		825/541	

			15		16		17	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/211	
	Push button modules	Repertory module	1 x 825/203 - 3 x 825/204	825/5	4 x 825/204	825/5	4 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

KOMBI PUSH BUTTON PANEL
4+n WIRE DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			18		19		20	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Push button modules	Repertory module	4 x 825/204	825/5	1 x 825/203 - 4 x 825/204	-	5 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

			21		22		23	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	5 x 825/204	-	5 x 825/204	-	5 x 825/203 - 2 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/39	
	Rain hood with wall cover frame (°)		825/46		825/46		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/59	

			24		25		26	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/210	
	Push button modules	Repertory module	2 x 825/202 - 5 x 825/204	825/5	1 x 825/201 - 6 x 825/204	825/5	1 x 825/202 - 6 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			27		28		29	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/211	
	Push button modules	Repertory module	1 x 825/203 - 6 x 825/204	825/5	7 x 825/204	825/5	7 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			30		31		32	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Push button modules	Repertory module	7 x 825/204	825/5	1 x 825/203 - 7 x 825/204	-	8 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			33		34		24	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	8 x 825/204	-	8 x 825/204	-	6 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/408	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/49		825/49		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/542	

			25		26		28	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	6 x 825/204	825/5	6 x 825/204	825/5	7 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/408		825/408	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/442		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/542		825/542	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			29		30		37	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	3 x 825/203 - 7 x 825/204	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		2 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/408		825/412	
	Rain hood with wall cover frame (°)		825/442		825/442		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/542		825/543	

			40		42		44	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/212		825/210	
	Push button modules	Repertory module	10 x 825/204	825/5	10 x 825/204	825/5	11 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543		825/543	

			46	
	Loudspeaking units		824/500	
	Modules arranged for loudspeaking unit		825/212	
	Push button modules	Repertory module	11 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412	
	Rain hood with wall cover frame (°)		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/16		825/17		825/15	
	Push button modules	Repertory module	-	-	-	-	825/203	-
	Conversation privacy device		1035/74		1035/74		1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/22		825/22		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/32		825/32		825/33	
	Rain hood with wall cover frame (°)		825/42		825/42		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/52		825/52		825/53	

			4		5		6	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/16		825/17	
	Push button modules	Repertory module	825/204	-	825/204	-	825/204	-
	Conversation privacy device		1035/74		2 x 1035/74		2 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/33	
	Rain hood with wall cover frame (°)		825/43		825/43		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/53	

			7		8		9	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/15		825/16	
	Push button modules	Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
	Conversation privacy device		2 x 1035/74		2 x 1035/74		3 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		825/24		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/404		825/404	
	Rain hood with wall cover frame (°)		825/441		825/441		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/541		825/541	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			10		7		8	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/17		825/15		825/15	
	Push button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-
	Conversation privacy device		3 x 1035/74		2 x 1035/74		2 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		2 x 825/22		2 x 825/22	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/34		825/34	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/441		825/44		825/44	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/54		825/54	

			9		10		11	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/16		825/17		825/15	
	Push button modules	Repertory module	2 x 825/204	-	2 x 825/204	-	1 x 825/203 - 2 x 825/204	825/5
	Conversation privacy device		3 x 1035/74		3 x 1035/74		3 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/22		2 x 825/22		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/34		825/34		825/36	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/44		825/44		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/54		825/54		825/56	

			12		13		14	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/16		825/17	
	Push button modules	Repertory module	3 x 825/204	825/5	3 x 825/204	825/5	3 x 825/204	825/5
	Conversation privacy device		3 x 1035/74		4 x 1035/74		4 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			15		16		17	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/15		825/16	
	Push button modules	Repertory module	1 x 825/203 - 3 x 825/204	-	4 x 825/204	-	4 x 825/204	-
	Conversation privacy device		4 x 1035/74		4 x 1035/74		5 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

			18		20		21	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/17		825/15		825/16	
	Push button modules	Repertory module	4 x 825/204	-	5 x 825/204	825/5	5 x 825/204	825/5
	Conversation privacy device		5 x 1035/74		5 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/408		825/408	
	Rain hood with wall cover frame (°)		825/46		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/542		825/542	

			22		23		24	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/17		825/15		825/15	
	Push button modules	Repertory module	5 x 825/204	825/5	1 x 825/203 - 5 x 825/204	-	6 x 825/204	-
	Conversation privacy device		6 x 1035/74		6 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/408		825/408	
	Rain hood with wall cover frame (°)		825/442		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/542		825/542	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			25		26		19	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/16		825/17		825/15	
	Push button modules	Repertory module	6 x 825/204	-	6 x 825/204	-	5 x 825/203 - 1 x 825/204	825/5
	Conversation privacy device		7 x 1035/74		7 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		2 x 825/24		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/408		825/39	
	Rain hood with wall cover frame (°)		825/442		825/442		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/542		825/59	

			20		21		22	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/15		825/15	
	Push button modules	Repertory module	4 x 825/203 - 2 x 825/204	825/5	3 x 825/203 - 3 x 825/204	825/5	2 x 825/203 - 4 x 825/204	825/5
	Conversation privacy device		6 x 1035/74		6 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			23		24		25	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/15		825/15		825/16	
	Push button modules	Repertory module	1 x 825/203 - 5 x 825/204	825/5	6 x 825/204	825/5	6 x 825/204	825/5
	Conversation privacy device		6 x 1035/74		6 x 1035/74		7 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			26		27		28	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/17		825/15		825/15	
	Push button modules	Repertory module	6 x 825/204	825/5	1 x 825/203 - 6 x 825/204	-	7 x 825/204	-
	Conversation privacy device		7 x 1035/74		7 x 1035/74		7 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			29		30		36	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/16		825/17		825/15	
	Push button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	9 x 825/204	825/5
	Conversation privacy device		8 x 1035/74		8 x 1035/74		9 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/412	
	Rain hood with wall cover frame (°)		825/49		825/49		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/543	

			38		40		42	
	Loudspeaking units		1035/67		1035/67		1035/67	
	Modules arranged for loudspeaking unit		825/17		825/15		825/17	
	Push button modules	Repertory module	9 x 825/204	825/5	10 x 825/204	-	10 x 825/204	-
	Conversation privacy device		10 x 1035/74		10 x 1035/74		11 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543		825/543	

KOMBI PUSH BUTTON PANEL
B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		1		2		3	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/211		825/212		825/210	
	Push button modules / Repertory module	-	-	-	-	825/203	-
FLUSH MOUNTED (#)	Module frames with embedding box	825/22		825/22		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/32		825/32		825/33	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/42		825/42		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/52		825/52		825/53	

		4		5		6	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/210		825/211		825/212	
	Push button modules / Repertory module	825/204	-	825/204	-	825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box	825/23		825/23		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/33		825/33		825/33	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/43		825/43		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/53		825/53		825/53	

		7		8		9	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/210		825/210		825/211	
	Push button modules / Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box	825/24		825/24		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/404		825/404		825/404	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/441		825/441		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/541		825/541		825/541	

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KOMBI PUSH BUTTON PANEL
B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			10		7		8	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Push button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		2 x 825/22		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/34		825/34	
	Rain hood with wall cover frame (°)		825/441		825/44		825/44	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/54		825/54	

			9		10		11	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	2 x 825/204	-	2 x 825/204	-	1 x 825/203 - 2 x 825/204	1 x 825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/22		2 x 825/22		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/34		825/34		825/36	
	Rain hood with wall cover frame (°)		825/44		825/44		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/54		825/54		825/56	

			12		13		14	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/211		825/212	
	Push button modules	Repertory module	3 x 825/204	1 x 825/5	3 x 825/204	1 x 825/5	3 x 825/204	1 x 825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

KOMBI PUSH BUTTON PANEL
B&W COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		15		16		17	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/210		825/210		825/211	
	Push button modules / Repertory module	1 x 825/203 - 3 x 825/204	-	4 x 825/204	-	4 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36		825/36		825/36	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56		825/56		825/56	

		18		20		21	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/212		825/210		825/211	
	Push button modules / Repertory module	4 x 825/204	-	5 x 825/204	1 x 825/5	5 x 825/204	1 x 825/5
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36		825/408		825/408	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/46		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56		825/542		825/542	

		22		24		25	
	Camera unit module	825/70		825/70		825/70	
	Loudspeaking units	824/500		824/500		824/500	
	Modules arranged for loudspeaking unit	825/212		825/210		825/211	
	Push button modules / Repertory module	5 x 825/204	1 x 825/5	6 x 825/204	-	6 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/408		825/408		825/408	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/442		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders	825/542		825/542		825/542	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			26		22		24	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Push button modules	Repertory module	6 x 825/204	-	2 x 825/203 - 4 x 825/204	1 x 825/5	6 x 825/204	1 x 825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/39		825/39	
	Rain hood with wall cover frame (°)		825/442		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/59		825/59	

			25		26		27	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Push button modules	Repertory module	6 x 825/204	1 x 825/5	6 x 825/204	1 x 825/5	1 x 825/203 - 6 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			28		29		30	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/211		825/212	
	Push button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	7 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

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B&W COAX VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			33		36		38	
	Camera unit module		825/70		825/70		825/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/212	
	Push button modules	Repertory module	3 x 825/203 - 6 x 825/204	1 x 825/5	9 x 825/204	1 x 825/5	9 x 825/204	1 x 825/5
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543		825/543	

			40		42	
	Camera unit module		825/70		825/70	
	Loudspeaking units		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/212	
	Push button modules	Repertory module	10 x 825/204	-	10 x 825/204	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543	

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COLOUR COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/212		825/210	
	Button module		-		-		825/203	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	-	-	-	-	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/404	
	Rain hood with wall cover frame (°)		825/43		825/43		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/541	

			4		5		6	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/211		825/212	
	Button module		825/204		825/204		825/204	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	-	-	-	-	-
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		825/24		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/404		825/404	
	Rain hood with wall cover frame (°)		825/441		825/441		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/541		825/541	

			7		8		9	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/211	
	Button module		1 x 825/203 - 1 x 825/204		2 x 825/204		2 x 825/204	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	825/5	-	825/5	-	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		10	11	12
	Camera unit module	1855/70	1855/70	1855/70
	Loudspeaking units	824/500	824/500	824/500
	Modules arranged for loudspeaking unit	825/212	825/210	825/210
	Button module	2 x 825/204	1 x 825/203 - 2 x 825/204	3 x 825/204
	Lighting module	1855/50	1855/50	1855/50
	Push button modules	-	-	-
	Repertory module	825/5	-	-
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23	2 x 825/23	2 x 825/23
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36	825/36	825/36
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/46	825/46	825/46
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56	825/56	825/56

		13	14	15
	Camera unit module	1855/70	1855/70	1855/70
	Loudspeaking units	824/500	824/500	824/500
	Modules arranged for loudspeaking unit	825/211	825/212	825/210
	Button module	3 x 825/204	3 x 825/204	1 x 825/203 - 3 x 825/204
	Lighting module	1855/50	1855/50	1855/50
	Push button modules	-	-	-
	Repertory module	-	-	-
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23	2 x 825/23	3 x 825/23
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36	825/36	825/39
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/46	825/46	825/49
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56	825/56	825/59

		16	17	18
	Camera unit module	1855/70	1855/70	1855/70
	Loudspeaking units	824/500	824/500	824/500
	Modules arranged for loudspeaking unit	825/210	825/211	825/212
	Button module	4 x 825/204	4 x 825/204	4 x 825/204
	Lighting module	1855/50	1855/50	1855/50
	Push button modules	825/9	825/9	825/9
	Repertory module	825/5	825/5	825/5
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/23	3 x 825/23	3 x 825/23
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/39	825/39	825/39
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)	825/49	825/49	825/49
WALL MOUNTED(#)	Case with hood, frame and module holders	825/59	825/59	825/59

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KOMBI PUSH BUTTON PANEL
COLOUR COAX VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			19		20		20	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/210		825/210		825/210	
	Button module		1 x 825/203 - 4 x 825/204		5 x 825/204		5 x 825/204	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	825/5	-	825/5	-	-
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/408	
	Rain hood with wall cover frame (°)		825/49		825/49		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/542	

			21		21		22	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/211		825/211		825/212	
	Button module		5 x 825/204		5 x 825/204		5 x 825/204	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	825/5	-	-	-	825/5
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		2 x 825/24		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/408		825/39	
	Rain hood with wall cover frame (°)		825/49		825/442		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/542		825/59	

			22		23		24	
	Camera unit module		1855/70		1855/70		1855/70	
	Loudspeaking units		824/500		824/500		824/500	
	Modules arranged for loudspeaking unit		825/212		825/210		825/210	
	Button module		5 x 825/204		1 x 825/203 - 5 x 825/204		6 x 825/204	
	Lighting module		1855/50		1855/50		1855/50	
	Push button modules	Repertory module	-	-	-	-	-	-
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/39		825/39	
	Rain hood with wall cover frame (°)		825/442		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/59		825/59	

KOMBI PUSH BUTTON PANEL
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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		25	26	33
	Camera unit module	1855/70	1855/70	1855/70
	Loudspeaking units	824/500	824/500	824/500
	Modules arranged for loudspeaking unit	825/211	825/212	825/210
	Button module	6 x 825/204	6 x 825/204	3 x 825/203 - 6 x 825/204
	Lighting module	1855/50	1855/50	1855/50
	Push button modules / Repertory module	- / -	- / -	- / -
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/23	3 x 825/23	3 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/39	825/39	825/412
	Rain hood with wall cover frame (°)	825/49	825/49	825/443
WALL MOUNTED(#)	Case with hood, frame and module holders	825/59	825/59	825/543

		34	35	36
	Camera unit module	1855/70	1855/70	1855/70
	Loudspeaking units	824/500	824/500	824/500
	Modules arranged for loudspeaking unit	825/211	825/212	825/210
	Button module	3 x 825/203 - 6 x 825/204	3 x 825/203 - 6 x 825/204	9 x 825/204
	Lighting module	1855/50	1855/50	1855/50
	Push button modules / Repertory module	- / -	- / -	- / -
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/24	3 x 825/24	3 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/412	825/412	825/412
	Rain hood with wall cover frame (°)	825/443	825/443	825/443
WALL MOUNTED(#)	Case with hood, frame and module holders	825/543	825/543	825/543

		37	38
	Camera unit module	1855/70	1855/70
	Loudspeaking units	824/500	824/500
	Modules arranged for loudspeaking unit	825/211	825/212
	Button module	9 x 825/204	9 x 825/204
	Lighting module	1855/50	1855/50
	Push button modules / Repertory module	- / -	/ -
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/24	3 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/412	825/412
	Rain hood with wall cover frame (°)	825/443	825/443
WALL MOUNTED(#)	Case with hood, frame and module holders	825/543	825/543

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KOMBI PUSH BUTTON PANEL
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Camera unit module with door unit		955/21		955/22		955/20	
	Button modules	Repertory module	-	-	-	-	825/203	-
	Conversation privacy device		-		-		1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/22		825/22		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/32		825/32		825/33	
	Rain hood with wall cover frame (°)		825/42		825/42		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/52		825/52		825/53	

			4		5		6	
	Camera unit module with door unit		955/20		955/21		955/22	
	Button modules	Repertory module	825/204	-	825/204	-	825/204	-
	Conversation privacy device		1035/74		1035/74		1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/33	
	Rain hood with wall cover frame (°)		825/43		825/43		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/53	

			7		8		9	
	Camera unit module with door unit		955/20		955/20		955/21	
	Button modules	Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
	Conversation privacy device		2 x 1035/74		2 x 1035/74		2 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/33	
	Rain hood with wall cover frame (°)		825/43		825/43		825/43	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/53	

KOMBI PUSH BUTTON PANEL
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			10		7		8	
	Camera unit module with door unit		955/22		955/20		955/20	
	Button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-
	Conversation privacy device		2 x 1035/74		2 x 1035/74		2 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		2 x 825/22		2 x 825/22	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/34		825/34	
	Rain hood with wall cover frame (°)		825/441		825/44		825/44	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/54		825/54	

			9		10		11	
	Camera unit module with door unit		955/21		955/22		955/20	
	Button modules	Repertory module	2 x 825/204	-	2 x 825/204	-	1 x 825/203 - 2 x 825/204	825/5
	Conversation privacy device		2 x 1035/74		2 x 1035/74		3 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/22		2 x 825/22		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/34		825/34		825/36	
	Rain hood with wall cover frame (°)		825/44		825/44		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/54		825/54		825/56	

			12		13		14	
	Camera unit module with door unit		955/20		955/21		955/22	
	Button modules	Repertory module	3 x 825/204	825/5	3 x 825/204	825/5	3 x 825/204	825/5
	Conversation privacy device		3 x 1035/74		3 x 1035/74		3 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

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KOMBI PUSH BUTTON PANEL
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			15		16		17	
	Camera unit module with door unit		955/20		955/20		955/21	
	Button modules	Repertory module	1 x 825/203 - 3 x 825/204	-	4 x 825/204	-	4 x 825/204	-
	Conversation privacy device		4 x 1035/74		4 x 1035/74		4 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

			18		20		21	
	Camera unit module with door unit		955/22		955/20		955/21	
	Button modules	Repertory module	4 x 825/204	-	5 x 825/204	825/5	5 x 825/204	825/5
	Conversation privacy device		4 x 1035/74		5 x 1035/74		5 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/408		825/408	
	Rain hood with wall cover frame (°)		825/46		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/542		825/542	

			22		24		25	
	Camera unit module with door unit		955/22		955/20		955/21	
	Button modules	Repertory module	5 x 825/204	825/5	6 x 825/204	-	6 x 825/204	-
	Conversation privacy device		5 x 1035/74		6 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/408		825/408	
	Rain hood with wall cover frame (°)		825/442		825/442		825/442	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/542		825/542	

KOMBI PUSH BUTTON PANEL
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			26		22		24	
	Camera unit module with door unit		955/22		955/20		955/20	
	Button modules	Repertory module	6 x 825/204	-	2 x 825/203 - 4 x 825/204	825/5	6 x 825/204	825/5
	Conversation privacy device		6 x 1035/74		6 x 1035/74		6 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/24		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/408		825/39		825/39	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/442		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/542		825/59		825/59	

			25		26		27	
	Camera unit module with door unit		955/21		955/22		955/20	
	Button modules	Repertory module	6 x 825/204	825/5	6 x 825/204	825/5	1 x 825/203 - 6 x 825/204	-
	Conversation privacy device		6 x 1035/74		6 x 1035/74		7 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

			28		29		30	
	Camera unit module with door unit		955/20		955/21		955/22	
	Button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	7 x 825/204	-
	Conversation privacy device		7 x 1035/74		7 x 1035/74		7 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/39		825/39		825/39	
FLUSH-MOUNTING ACCESSORIES	Rain hood with wall cover frame (°)		825/49		825/49		825/49	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/59		825/59		825/59	

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KOMBI PUSH BUTTON PANEL
B&W 5-WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			33		36		38	
	Camera unit module with door unit		955/20		955/20		955/22	
	Button modules	Repertory module	3 x 825/203 - 6 x 825/204	825/5	9 x 825/204	825/5	9 x 825/204	825/5
	Conversation privacy device		9 x 1035/74		9 x 1035/74		9 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543		825/543	

			40		42	
	Camera unit module with door unit		955/20		955/22	
	Button modules	Repertory module	10 x 825/204	-	10 x 825/204	-
	Conversation privacy device		10 x 1035/74		10 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443	
WALL MOUNTED(#)	Custodia con visiera completa di cornice e telai portamoduli		825/543		825/543	

KOMBI PUSH BUTTON PANEL
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

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EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

			1		2		3	
	Camera unit module with door unit and illuminator		1855/21		1855/22		1855/20	
	Button modules		-		-		825/203	
	Push button modules	Repertory module	-	-	-	-	-	-
	Conversation privacy device		-		-		1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/23		825/23		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/33		825/33		825/404	
	Rain hood with wall cover frame (°)		825/43		825/43		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/53		825/53		825/541	

			4		5		6	
	Camera unit module with door unit and illuminator		1855/20		1855/21		1855/22	
	Button modules		825/204		825/204		825/204	
	Push button modules	Repertory module	-	-	-	-	-	-
	Conversation privacy device		1035/74		1035/74		1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		825/24		825/24		825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/404		825/404		825/404	
	Rain hood with wall cover frame (°)		825/441		825/441		825/441	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/541		825/541		825/541	

			7		8		9	
	Camera unit module with door unit and illuminator		1855/20		1855/20		1855/21	
	Button modules		1 x 825/203 - 1 x 825/204		2 x 825/204		2 x 825/204	
	Push button modules	Repertory module	-	825/5	-	825/5	-	825/5
	Conversation privacy device		2 x 1035/74		2 x 1035/74		2 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/36		825/36		825/36	
	Rain hood with wall cover frame (°)		825/46		825/46		825/46	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/56		825/56		825/56	

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KOMBI PUSH BUTTON PANEL
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

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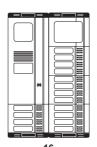
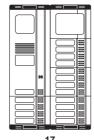
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		10	11	12
	Camera unit module with door unit and illuminator	1855/22	1855/20	1855/20
	Button modules	2 x 825/204	1 x 825/203 - 2 x 825/204	3 x 825/204
	Push button modules	-	-	-
	Repertory module	825/5	-	-
	Conversation privacy device	2 x 1035/74	3 x 1035/74	3 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23	2 x 825/23	2 x 825/23
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36	825/36	825/36
	Rain hood with wall cover frame (°)	825/46	825/46	825/46
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56	825/56	825/56

		13	14	15
	Camera unit module with door unit and illuminator	1855/21	1855/22	1855/21
	Button modules	3 x 825/204	3 x 825/204	2 x 825/203 - 2 x 825/204
	Push button modules	-	-	-
	Repertory module	-	-	825/5
	Conversation privacy device	3 x 1035/74	3 x 1035/74	4 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/23	2 x 825/23	2 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/36	825/36	825/408
	Rain hood with wall cover frame (°)	825/46	825/46	825/442
WALL MOUNTED(#)	Case with hood, frame and module holders	825/56	825/56	825/542

		16	17	18
	Camera unit module with door unit and illuminator	1855/20	1855/21	1855/22
	Button modules	4 x 825/204	4 x 825/204	4 x 825/204
	Push button modules	-	-	-
	Repertory module	825/5	825/5	825/5
	Conversation privacy device	4 x 1035/74	4 x 1035/74	4 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/24	2 x 825/24	2 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/408	825/408	825/408
	Rain hood with wall cover frame (°)	825/442	825/442	825/442
WALL MOUNTED(#)	Case with hood, frame and module holders	825/542	825/542	825/542

KOMBI PUSH BUTTON PANEL
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

		20	21	22
	Camera unit module with door unit and illuminator	1855/20	1855/21	1855/22
	Button modules	5 x 825/204	5 x 825/204	5 x 825/204
	Push button modules	-	-	-
	Repertory module	-	-	-
	Conversation privacy device	5 x 1035/74	5 x 1035/74	5 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	2 x 825/24	2 x 825/24	2 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/408	825/408	825/408
	Rain hood with wall cover frame (°)	825/442	825/442	825/442
WALL MOUNTED(#)	Case with hood, frame and module holders	825/542	825/542	825/542

		24	25	26
	Camera unit module with door unit and illuminator	1855/20	1855/21	1855/22
	Button modules	6 x 825/204	6 x 825/204	6 x 825/204
	Push button modules	-	-	-
	Repertory module	-	-	-
	Conversation privacy device	6 x 1035/74	6 x 1035/74	6 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/23	3 x 825/23	3 x 825/23
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/39	825/39	825/39
	Rain hood with wall cover frame (°)	825/49	825/49	825/49
WALL MOUNTED(#)	Case with hood, frame and module holders	825/59	825/59	825/59

		28	30	32
	Camera unit module with door unit and illuminator	1855/20	1855/22	1855/20
	Button modules	7 x 825/204	7 x 825/204	8 x 825/204
	Push button modules	825/9	825/9	-
	Repertory module	825/5	825/5	825/5
	Conversation privacy device	7 x 1035/74	7 x 1035/74	8 x 1035/74
FLUSH MOUNTED (#)	Module frames with embedding box	3 x 825/24	3 x 825/24	3 x 825/24
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)	825/412	825/412	825/412
	Rain hood with wall cover frame (°)	825/443	825/443	825/443
WALL MOUNTED(#)	Case with hood, frame and module holders	825/543	825/543	825/543

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KOMBI PUSH BUTTON PANEL
COLOUR 5 WIRE VIDEO DOOR PHONE SYSTEMS

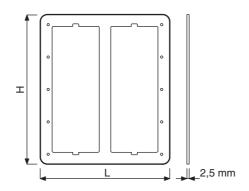
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives
(#) alternatives

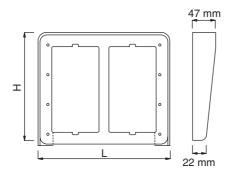
			34		36		38	
	Camera unit module with door unit and illuminator		1855/22		1855/20		1855/22	
	Button modules		8 x 825/204		9 x 825/204		9 x 825/204	
	Push button modules	Repertory module	-	825/5	-	-	-	-
	Conversation privacy device		8 x 1035/74		9 x 1035/74		9 x 1035/74	
FLUSH MOUNTED (#)	Module frames with embedding box		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH-MOUNTING ACCESSORIES	Wall cover frame (°)		825/412		825/412		825/412	
	Rain hood with wall cover frame (°)		825/443		825/443		825/443	
WALL MOUNTED(#)	Case with hood, frame and module holders		825/543		825/543		825/543	

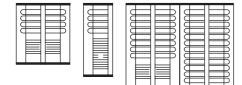
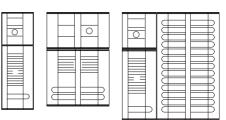
INTERCHANGEABLE WALL COVER FRAMES

Sinthesi wall cover frames can be used instead of those in the Kombi range.
Code correspondence according to the various wall cover frame capacities is shown in the following table:

Capacities	Dimensions		Mod. Kombi	Mod. Sinthesi
	Height (H)	Lenght (L)		
For 1 module	148 mm	151 mm	Ref. 825/31	Ref. 1145/711
For 2 modules	238 mm	151 mm	Ref. 825/32	Ref. 1145/712
For 3 modules	328 mm	151 mm	Ref. 825/33	Ref. 1145/713
For 4 modules	418 mm	151 mm	Ref. 825/404	Ref. 1145/714
For 4 modules (2 frames for 2 linked modules)	238 mm	280 mm	Ref. 825/34	Ref. 1145/724
For 6 modules (2 frames for 3 linked modules)	328 mm	280 mm	Ref. 825/36	Ref. 1145/726
For 8 modules (2 frames for 4 linked modules)	418 mm	280 mm	Ref. 825/408	Ref. 1145/728
For 9 modules (3 frames for 3 linked modules)	328 mm	409 mm	Ref. 825/39	Ref. 1145/739
For 12 modules (3 frames for 4 linked modules)	418 mm	409 mm	Ref. 825/412	Ref. 1145/732

INTERCHANGEABLE RAIN HOODS

Sinthesi rain hoods with wall cover frames can be used instead of those in the Kombi range.
Code correspondence according to the various wall cover frame capacities is shown in the following table:

Capacities	Dimensions		Mod. Kombi	Mod. Sinthesi
	Height (H)	Lenght (L)		
For 1 module	151 mm	157 mm	Ref. 825/41	Ref. 1145/611
For 2 modules	241 mm	157 mm	Ref. 825/42	Ref. 1145/612
For 3 modules	331 mm	157 mm	Ref. 825/43	Ref. 1145/613
For 4 modules	421 mm	157 mm	Ref. 825/441	Ref. 1145/614
For 4 modules (2 frames for 2 linked modules)	241 mm	286 mm	Ref. 825/44	Ref. 1145/624
For 6 modules (2 frames for 3 linked modules)	331 mm	286 mm	Ref. 825/46	Ref. 1145/626
For 8 modules (2 frames for 4 linked modules)	421 mm	286 mm	Ref. 825/442	Ref. 1145/628
For 9 modules (3 frames for 3 linked modules)	331 mm	415 mm	Ref. 825/49	Ref. 1145/639
For 12 modules (3 frames for 4 linked modules)	421 mm	415 mm	Ref. 825/443	Ref. 1145/632

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725

DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

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PANELS WITH ANODIZED ALUMINIUM FRONT PLATE

Mod. 725 panels with aluminium front plate are modular.
Two front plate widths are available:
- one row of buttons (113 mm);
- two rows of buttons (205 mm) with door unit set-up;
- two rows of buttons (205 mm) without door unit set-up.

The one row configuration may contain from 1 to 8 buttons; the two row configuration may contain from 4 to 28 buttons.

3, 4, 5, 6 row configurations can be obtained by arranging several modules side by side. Fixed wire shim-fairleads are used to couple the flush-mounting boxes horizontally. This system can be exploited to create panels of all types and configurations using a low number of components. The advantage in terms of stock management is reflected on both the wholesaler and on the installer.

The camera unit 725 is modular. Simply combine the camera unit (consisting of front unit with flush-mounting box and CCD camera) to a one or two button row 725 panel (with door unit set-up).

Note: *information on the camera unit is provided in the second part of this section.*

FEATURES

ELECTRICAL AND MECHANICAL SPECIFICATIONS

1-row front plate width:		**113 mm**
2-row front plate width:		**205 mm**
Front plate protrusion (from the wall):		**11.5 mm**
Flush-mounting depth:		**43.5 mm**
Max. flush-mounting error tolerance:		**8 mm inside (finished wall)**
Front plate thickness:		**1.7 and 2 mm 1 row**
		2.5 mm 2 rows
Front plate treatment:		**natural anodization**
Door unit grid colour:		**anthracite**
Front header colour:		**anthracite**
Urmet trade mark:		**on loudspeaking unit grid**
Lamp holder:	body:	**acetate resin**
	contacts:	**nickel-plated brass**
Name plate dimension:		**54.5x14.5 mm (max. thickness 2 mm)**
Distance between buttons:		**24 mm**
Common contact:		**nickel-plated brass strap.**
Total stroke of button:		**2 mm**
Idle stroke of button:		**1.2 mm (before contact closing)**
Transition of switch button:		**100,000 transitions with power 0.2 Aeff, on resistive load, voltage 12 Veff**
Button control force:		**min. 850 gr.**
Max. section of wire for button terminals and lamp holders:		**2 mm²**
Insulation voltage between contacts:		**500 Veff.**
Max. cutoff current:		**max. 2 Aeff on resistive load**
Lighting lamp:		**bulb 14V 3W**
Protection:		**IP 33 according IEC standards 70.1**
Corrosion:		**according DIN 5342/64 standards**
	test duration:	**16 hours**
	temperature:	**35 °C**

STRUCTURAL FEATURES

The Mod. 725 panel includes 3 parts:
- aluminum front plate (drawn) with plastic headers;
- button frame;
- flush-mounting box.

FRONT PLATE

The front plate, made of drawn aluminium, if fixed to the frame by means of two screws inserted in the headers. Call buttons (with name plates) and a door unit protective grid are arranged on the front panel. The name plates are built to permit replacement only from the inside of the panel.

BUTTON FRAME

1 row versions with up to 4 buttons are made of plastic; other models are made of metal. The buttons, lighting bulbs and door unit are fastened to the frame. The frame is fastened to the flush-mounting box by means of specific screws.

EMBEDDING BOX

1 row panels with up to 4 buttons have a plastic flush-mounting box. Other models are made of metal with plastic headers. All boxes are arranged to be jointed to other boxes for perfect front panel installation in configurations employing several panels.

COMPONENT FEATURES

BUTTONS

The buttons are made of plastic and connected by means of screw terminals. Modular pre-connected metal strips are used for contacts. The strip is visible and easily cut to split common contacts.
The total stroke of the button is 2 mm with 1.2 mm of idle stroke. The maximum cutoff current is 2 A effective with resistive load.

NAME PLATE HOLDERS

The name plate holders are made of transparent methacrylate and can be accessed from the inside of the panel for replacing the names. One paper label is provided for temporarily writing the names before definitive engraving on a Plexiglas plate (dimensions 54.5 mm x 14.5 mm - max. thickness 2 mm).

DOOR UNIT PROTECTIVE GRID

The grid is made of plastic and ensure good protection from water leakage. The grid can be disassembled and turned for other applications (e.g. video systems).

Important: The anodized surface protects from weather conditions but may be damaged by lime, cement and gypsum spots. Wash the anodized aluminium surface with warm water, dry and wipe to clean. Do not use grease acid (lanolin or Vaseline). Never use abrasive products.

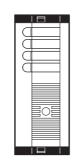
CONFIGURATION

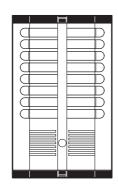
Panel configurations:
- 1 or 2 rows of buttons with door unit set-up
- 2 rows of buttons without door unit set-up.

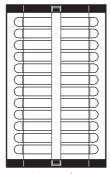
Installation methods:
- flush-mounting
- wall mounting 1 to 24 buttons in specific housings

PANELS

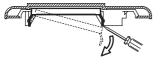
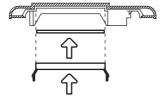
One row of buttons with door unit set-up.

1	button	Ref. 725/101*
2	buttons	Ref. 725/102*
3	buttons	Ref. 725/103*
4	buttons	Ref. 725/104*
5	buttons	Ref. 725/105
6	buttons	Ref. 725/106
7	buttons	Ref. 725/107
8	buttons	Ref. 725/108

Two rows of buttons with door unit set-up

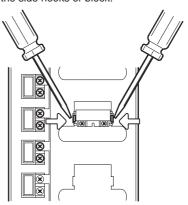
4	buttons	Ref. 725/204
6	buttons	Ref. 725/206
8	buttons	Ref. 725/208
10	buttons	Ref. 725/210
12	buttons	Ref. 725/212
14	buttons	Ref. 725/214
16	buttons	Ref. 725/216
18	buttons	Ref. 725/218
20	buttons	Ref. 725/220
22	buttons	Ref. 725/222
24	buttons	Ref. 725/224
26	buttons	Ref. 725/226
28	buttons	Ref. 725/228

Two rows of buttons without door unit set-up.

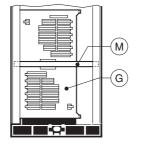
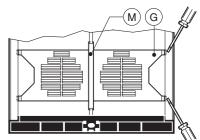
20	buttons	Ref. 725/020
22	buttons	Ref. 725/022
24	buttons	Ref. 725/024
26	buttons	Ref. 725/026
28	buttons	Ref. 725/028
30	buttons	Ref. 725/030
32	buttons	Ref. 725/032
34	buttons	Ref. 725/034
36	buttons	Ref. 725/036

* for 4+n door phone and coax video door phone systems only.

NAME PLATE INSCRIPTION

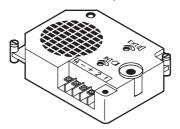
To write the names of the various users, remove the plate clipped on to the back of each button.
The tag is easily removed by levering with a screwdriver. Remove the card where to the temporarily write the corresponding name.

The definitive inscription can be made on a plexiglass plate (dimensions 54.5 mm x 14.5 mm thickness max. 2 mm). For night lighting, the panels are equipped with bulb lamp 15V, 3W. Supply at 12 V a.c.
The power supply is sufficient for up to 2 lamps.
Use a transformer providing adequate power for more than 2 lamps.
A 9000/230 transformer can power up to 5 lamps.

LAMP HOLDER

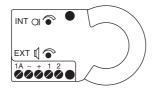
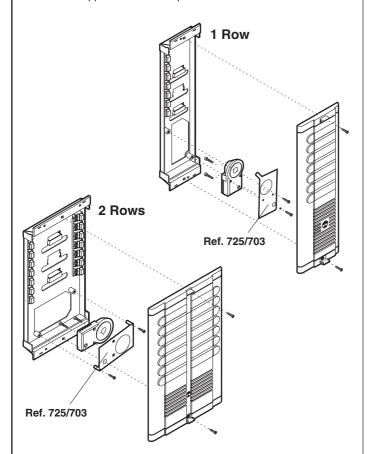
The Mod. 725 panels are supplied with lamp holders and relevant lamps, in a number that guarantees a good lighting. If necessary, the installer can add other lamps inserting them in the proper holes.
To remove the lamp holder, and replace a lamp operate with screwdriver on the side hooks or block.

GRID DISASSEMBLY

Simply remove block plate M to disassemble the grid G. Use the edge of a screwdriver on the block teeth to free it completely.

DOOR UNIT FOR 4+N WIRE DOOR PHONE SYSTEMS OR COAX VIDEO DOOR PHONE SYSTEMS

DOOR UNIT Ref. 5150/500

Door unit Ref. 5150/500 is used for all solutions. The unit is fitted inside the panels Ref. 725 with door unit set-up.

The outdoor set Ref. 5150/500 uses two different integrated circuits to effect amplification both outwards and inwards and an electret microphone as transmitting unit.

DOOR UNIT Ref. 824/500

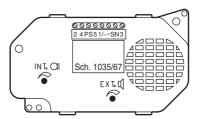
Door unit Ref. 824/500 may be required in certain cases. In this case, fit the specific adapter Ref. 725/703.

FASTENING ADAPTER Ref. 725/703 FOR FITTING DOOR UNIT Ref. 824/500
Adapter Ref. 725/703 is needed to install the door unit Ref. 824/500 inside the Mod. 725 panel. Remove the door unit screws and use the self-tapping 2.9 x 22 mm screws instead. Use the 3.5 x 25 mm screws to fix the door unit and adapter to the panel frame. The necessary screws are supplied with the adapter.

DOOR UNIT TERMINAL BOARDS Ref. 5150/500 and Ref. 824/500

⦸	1A	Electronic voice out (from speaker to door phone)
⦸	-	Door unit power negative
⦸	+	Door unit power positive
⦸	1	Traditional voice out (from speaker to door phone)
⦸	2	Voice in (from microphone to door phone)

Note: *use terminal “1A” in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal “1” for Mod. 1130 door phones.*

DOOR UNIT FOR 1+1 WIRE DOOR PHONE SYSTEMS OR 5 WIRE VIDEO DOOR PHONE SYSTEMS

DOOR UNIT Ref. 1035/67

Fit door unit Ref. 1035/67 in the panel for speak-and-listen service in “1+1” wire door phone systems and 5 wire video door phone systems.

Note: *This type of door unit may not be fitted in one row panels with 1, 2, 3 and 4 buttons*

DOOR UNIT TERMINAL BOARDS Ref. 1035/67

⦸	2	Electrical lock control
⦸	4	Voice (conversation privacy device power)
⦸	PS	Tone generator output
⦸	5	(Electrical lock emergency relay control)
⦸	1/~	Door unit power earth
⦸	~	Door unit power
⦸	SN	Video power on for video door phone systems
⦸	3	Call buzzer (for Mod. 1130 door phones)

AMPLIFICATION ADJUSTMENT

All door units have two separate integrated circuits for external and internal amplification and an electret microphone transmitter unit. Amplification in the two directions can be adjusted by means of two externally accessible potentiometers.

Transmission levels are calibrated at the factory. For this reason, they should only be adjusted when absolutely necessary (e.g. to eliminate Larsen feedback). In these cases, turn the volume adjustment potentiometer outwards to avoid worsening acoustic balance.

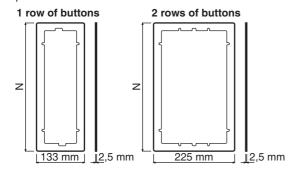
To adjust external volume:
- turn the potentiometer EXT. clockwise to increase volume, counterclockwise to decrease it.

To adjust internal volume:
- turn the potentiometer INT. clockwise to increase volume, counterclockwise to decrease it.

ACCESSORIE

COVER FRAMES

These frames are used to conceal irregularities of the wall in the flush mounting area surrounding the panel; insert the cover frames between modules and wall.
Two versions are provided:

- For panels with 1 row of buttons
- For panels with 2 rows of buttons

For panels with 1 row of buttons

For push button panels	Height/N	References
Ref. 725/101 with 1 button Ref. 725/102 with 2 buttons	260	**725/51**
Ref. 725/103 with 3 buttons Ref. 725/104 with 4 buttons	308	**725/52**
Ref. 725/105 with 5 buttons	332	**725/53**
Ref. 725/106 with 6 buttons	356	**725/54**
Ref. 725/107 with 7 buttons or with TV camera plus 1/2 buttons	380	**725/55**
Ref. 725/108 with 8 buttons	404	**725/56**
with TV camera plus 3/4 buttons	428	**725/57**
with TV camera plus 5 buttons	452	**725/58**
with TV camera plus 6 buttons	476	**725/59**
with TV camera plus 7 buttons	500	**725/60**
with TV camera plus 8 buttons	524	**725/61**

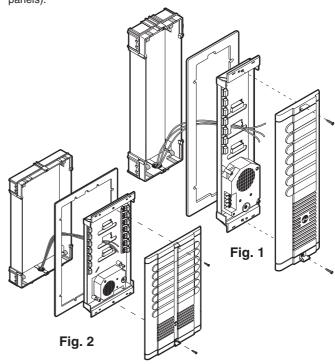
For panels with 2 rows of buttons

For push button panels	Height/N	References
Ref. 725/204 with 4 buttons	212	**725/62**
Ref. 725/206 with 6 buttons	236	**725/63**
Ref. 725/208 with 8 buttons	260	**725/64**
Ref. 725/212 with 12 buttons Ref. 725/020 with 20 buttons	308	**725/66**
Ref. 725/214 with 14 buttons Ref. 725/022 with 22 buttons or with TV camera plus 4 buttons	332	**725/67**
Ref. 725/216 with 16 buttons Ref. 725/024 with 24 buttons or with TV camera plus 6 buttons	356	**725/68**
Ref. 725/218 with 18 buttons Ref. 725/026 with 26 buttons or with TV camera plus 8 buttons	380	**725/69**
Ref. 725/220 with 20 buttons Ref. 725/028 with 28 buttons or with TV camera plus 10 buttons	404	**725/70**
Ref. 725/222 with 22 buttons Ref. 725/030 with 30 buttons or with TV camera plus 12 buttons	428	**725/71**
Ref. 725/224 with 24 buttons Ref. 725/032 with 32 buttons or with TV camera plus 14 buttons	452	**725/72**
Ref. 725/226 with 26 buttons Ref. 725/034 with 34 buttons or with TV camera plus 16 buttons	476	**725/73**
Ref. 725/228 with 28 buttons Ref. 725/036 with 36 buttons or with TV camera plus 18 buttons	500	**725/74**

INSTALLATION

The cover must be inserted between the button holder frame and the flush-mounting box as shown in Fig. 1 (1 row panels) and Fig. 2 (2 row panels).

Fig. 1

Fig. 2

CASES WITH HOOD

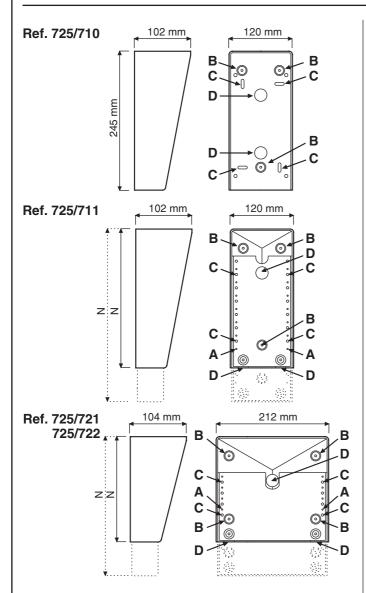
Use the specific cases with hoods to install Mod. 725 panels on the wall surface.
This type of installation is possible in door phone systems only.

One row Ref. 725/710
The housing can be applied to panels with 1 or 2 buttons on one row Ref. 725/101 and 725/102.

One row Ref. 725/711
The housing can be applied to panels with 1 to 8 buttons on one row Ref. 725/101 - 725/108.
On purchase the housing is arranged for Ref. 725/101 and 102 panels.
For other types, loosen the two screws on the back (A), make the lower part of the housing slide and fasten in the appropriate holes.

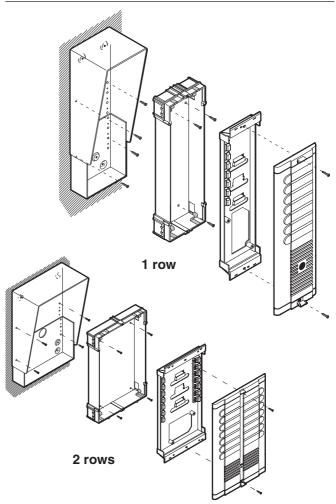
Two rows Ref. 725/721
The housings can be applied to panels with 4 to 10 buttons on 2 rows Ref. 725/204 - 725/210.
The housings are arranged for Ref. 725/204 panels.
For other types, loosen the two screws on the back (A), make the lower part of the housing slide and fasten in the appropriate holes.

Two rows Ref. 725/722
The housings can be applied to panels with 12 to 24 buttons on 2 rows (version with door unit) Ref. 725/212 - 725/224 and from 20 to 32 buttons on 2 rows (in the version without door unit) Ref. 725/020 - 725/032.
The housings are arranged for Ref. 715/212 and Ref. 725/020 panels.
For other types, loosen the two screws on the back (A), make the lower part of the housing slide and fasten in the appropriate holes.

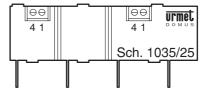
For panels with 1 row of buttons

For panels	Height/N	References
Ref. 725/101 with 1 button with unit door Ref. 725/102 with 2 buttons with unit door	245	**725/710**
Ref. 725/101 with 1 button with unit door Ref. 725/108 with 8 buttons with unit door	245 389	**725/711**

For panels with 2 rows of buttons

For panels	Height/N	References
from Ref. 725/204 with 4 buttons with unit door to Ref. 725/210 with 10 buttons with unit door	197 269	**725/721**
from Ref. 725/212 with 12 buttons with unit door to Ref. 725/224 with 24 buttons with unit door	293 437	**725/722**
from Ref. 725/020 with 20 buttons without unit door to Ref. 725/032 with 32 buttons without unit door	293 437	

INSTALLATION

Fix the housing to the wall or to the gate by using the holes (C). The holes (D) allow the passage of the wires from the rear side.
Unscrew the panel front plate and fix the box inside the housing by screwing the proper screws in the holes (B).

CONVERSATION PRIVACY DEVICE FOR “1+1” WIRE SYSTEMS Ref. 1035/25

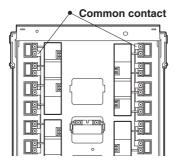
Conversation privacy boards Ref. 1035/25 separating call and voice circuits employing the same wire must be fitted in traditional Ref. 725 panels in 1+1 wire door phone systems and 5 wire video door phone systems.
The number of plates required for the various capacities is indicated in the table of the list of equipment beside the related panels.

The device cannot be assembled on 1 row push button panels with a capacity of 1, 2, 3 and 4 buttons.

1. Loosen the screws of the terminals of the individual buttons inside the panel.
2. Insert the terminals of the conversation privacy board in the above-mentioned terminals as indicated in the drawings.

3. According to the type of panel, check that the common contact is positioned as shown: otherwise, move it. In the case of panels with one row of buttons, to make space for the conversation privacy board, move the lamp holder and position it as shown in the drawing.
4. Connect as shown in the diagram. Wire 1 of the door phones must be connected directly to terminal 1/ ~ of the door unit.

Each conversation privacy board has four push buttons.
It can be used also for 2 or 3 push buttons.
In this case, break the printed circuit in the preshaped area.

ASSEMBLY IN PANELS WITH TWO ROWS OF BUTTONS

Check that the common contact is positioned as shown in the drawing; otherwise, move it.

ASSEMBLY IN PANELS WITH ONE ROW OF BUTTONS

Check that the common contact is positioned as shown in the drawing; otherwise, move it.

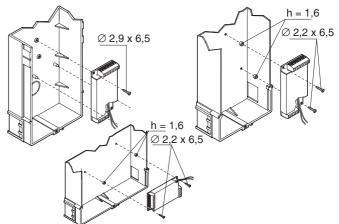
Important: as mentioned above, the device cannot be assembled on 1 row panels with a capacity of 1, 2, 3 and 4 buttons.

Warning: If the frame does not have the lamp holder fastening holes, make a 2.5 mm diameter hole in the position indicated.

CONVERSATION PRIVACY DEVICE FOR “4+n” WIRE SYSTEMS Ref. 5330/60

This device is used for conversation privacy function in 4+n door phone systems and coax video door phone systems, only.

Fit device Ref. 1131/5 in each 1131 or 1132 door phone for the function; fit the video door phones on the specific conversation privacy bracket (Ref. 1202/95 for Winflat+ or Ref. 1704/95 for Sentry+). The device shuts down privacy from previous calls and consequently ensures total privacy also if a door phone is forgotten off hook.
All devices are normally deactivated (no conversation is heard when the handset is picked up): only the device called by the panel may start a conversation with the caller; no other device can take or intercept the call.

The device must be fitted either to the flush-mounting box or to the box and hood as shown below.

INSTALLATION

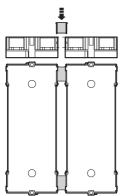
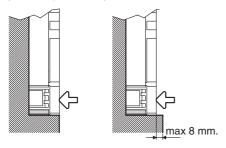
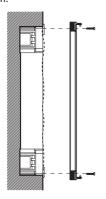
FLUSH-MOUNTING INSTALLATION

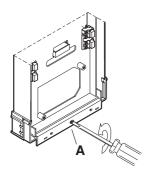
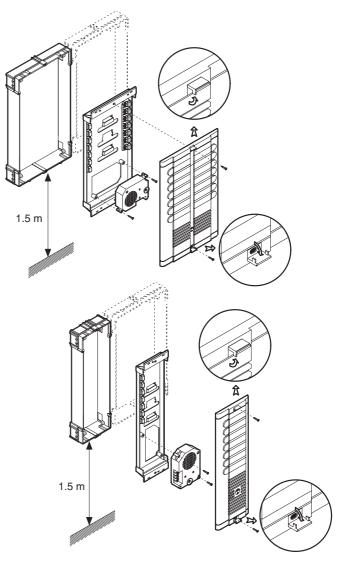
The recommended height for flush-mounting the panel is approximately 1.5 m from the ground (lower edge).

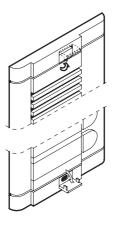
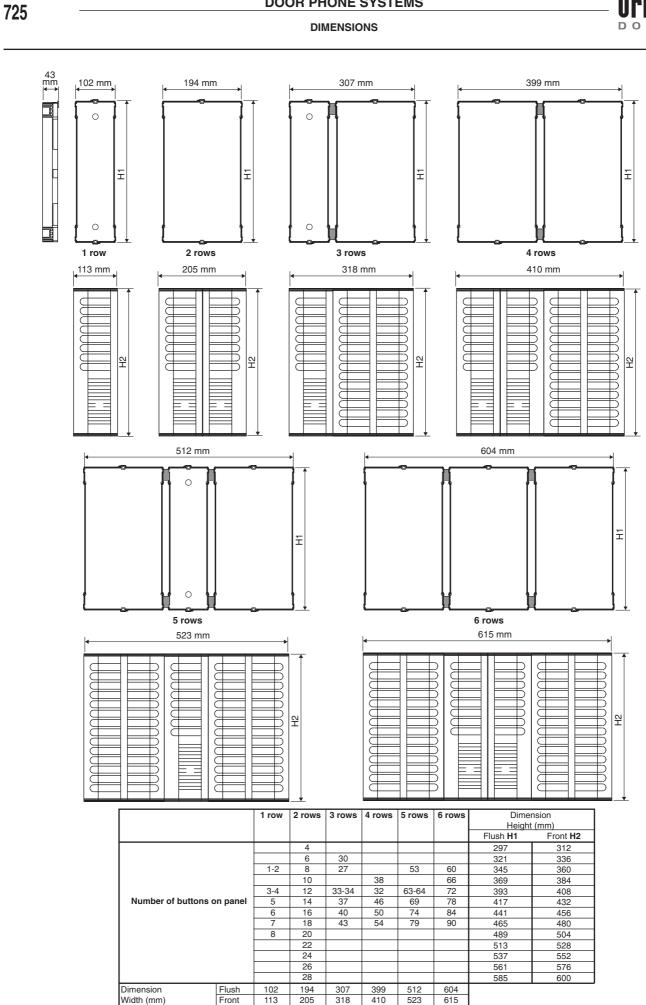
Make a hole for passing the connection wires through before installing the flush-mounting box (single or coupled with others) in the wall.

ASSEMBLY OF FLUSH-MOUNTING BOXES

The flush-mounting boxes are joined together using special shims-fairleads that also serve as wire conduits.
Boxes with one or two rows of buttons can be joined.

All the shims are empty inside to permit feeding of the wires from one box to another.

During the walling phase, apply the proper adhesive stamps on the holes for the frame fixing to protect them from lime.
The flush-mounting box must be levelled with the wall surface and must not protrude (max. final protrusion allowed is 8 mm).

The wall surface on which the front plate is fitted must be flat. The max. tolerance is 1.5 mm.

Remove the button/lamp holder frame before walling the flush-mounting box.
To release the frame from the 4 support springs placed in the flush-mounting box, insert the tip of a screwdriver into the hole A of the lower headre and then turn 90°.

The springs are push the frame against the front plate, so as to keep the distance between the buttons of the front plate and the ones of the frame constant.

Insert the frame on the 4 springs during connection phase and then fix the door unit to the frame.
At the end, tighten the front plate to the frame by means of the supplied screws.

FRONT PLATE INSTALLATION

To screw the front plate on the frame rotate the two doors that hide the two fixing screws.

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
DOOR PHONE SYSTEMS

DIMENSIONS

43 mm | 102 mm | 194 mm | 307 mm | 399 mm | H1

1 row | 2 rows | 3 rows | 4 rows

113 mm | 205 mm | 318 mm | 410 mm | H2

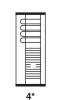
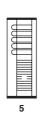
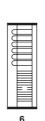
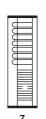
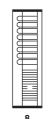
512 mm | 604 mm | H1

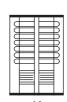
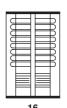
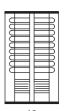
5 rows | 6 rows

523 mm | 615 mm | H2

		1 row	2 rows	3 rows	4 rows	5 rows	6 rows	Dimension Height (mm)	
								Flush **H1**	Front **H2**
Number of buttons on panel			4					297	312
			6	30				321	336
		1-2	8	27		53	60	345	360
			10		38		66	369	384
		3-4	12	33-34	32	63-64	72	393	408
		5	14	37	46	69	78	417	432
		6	16	40	50	74	84	441	456
		7	18	43	54	79	90	465	480
		8	20					489	504
			22					513	528
			24					537	552
			26					561	576
			28					585	600
Dimension	Flush	102	194	307	399	512	604		
Width (mm)	Front	113	205	318	410	523	615		

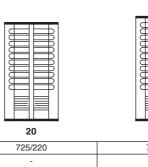
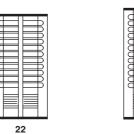
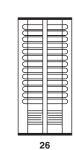
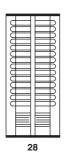
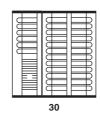
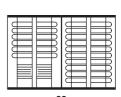
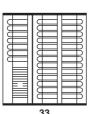
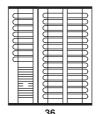
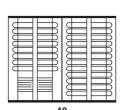
PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		1*	2*	3*	4*
	Panels with door unit set-up	725/101	725/102	725/103	725/104
	Panels without door unit set-up	-	-	-	-
	Wall mounting box with hood	725/710	725/710	725/711	725/711
4+n WIRES	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	-	-	-	-
	Conversation Privacy Device	-	-	-	-

		5	6	7	8
	Panels with door unit set-up	725/105	725/106	725/107	725/108
	Panels without door unit set-up	-	-	-	-
	Wall mounting box with hood	725/711	725/711	725/711	725/711
4+n WIRES	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	2 x 1035/25	2 x 1035/25	2 x 1035/25	2 x 1035/25

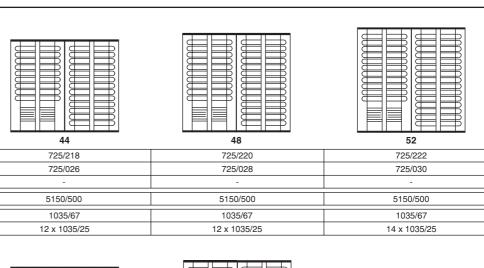
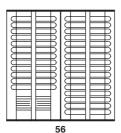
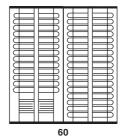
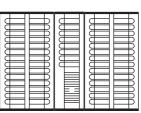
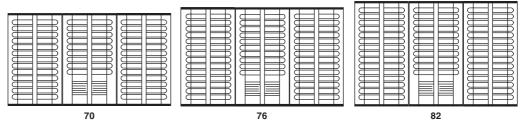
		4	6	8	10
	Panels with door unit set-up	725/204	725/206	725/208	725/210
	Panels without door unit set-up	-	-	-	-
	Wall mounting box with hood	725/721	725/721	725/721	725/721
4+n WIRES	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	1 x 1035/25	2 x 1035/25	2 x 1035/25	3 x 1035/25

		12	14	16	18
	Panels with door unit set-up	725/212	725/214	725/216	725/218
	Panels without door unit set-up	-	-	-	-
	Wall mounting box with hood	725/722	725/722	725/722	725/722
4+n WIRES	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	3 x 1035/25	4 x 1035/25	4 x 1035/25	5 x 1035/25

(*) this configuration **is not** possible in 1+1 wire systems.

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		20	22	24	26
	Panels with door unit set-up	725/220	725/222	725/224	725/226
	Panels without door unit set-up	-	-	-	-
	Wall mounting box with hood	725/722	725/722	725/722	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	5 x 1035/25	6 x 1035/25	6 x 1035/25	7 x 1035/25

		28	30	32
	Panels with door unit set-up	725/228	725/106	725/212
	Panels without door unit set-up	-	725/024	725/020
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	7 x 1035/25	8 x 1035/25	8 x 1035/25

		33	36	40
	Panels with door unit set-up	725/107	725/108	725/216
	Panels without door unit set-up	725/026	725/028	725/024
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	9 x 1035/25	9 x 1035/25	10 x 1035/25

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		44	48	52
	Panels with door unit set-up	725/218	725/220	725/222
	Panels without door unit set-up	725/026	725/028	725/030
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	12 x 1035/25	12 x 1035/25	14 x 1035/25

		56	60	64
	Panels with door unit set-up	725/224	725/226	725/108
	Panels without door unit set-up	725/032	725/034	2 x 725/028
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	14 x 1035/25	16 x 1035/25	16 x 1035/25

		70	76	82
	Panels with door unit set-up	725/218	725/220	725/222
	Panels without door unit set-up	2 x 725/026	2 x 725/028	2 x 725/030
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	19 x 1035/25	19 x 1035/25	22 x 1035/25

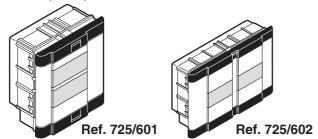
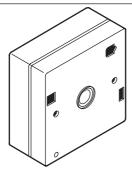
		88	94	100
	Panels with door unit set-up	725/224	725/226	725/228
	Panels without door unit set-up	2 x 725/032	2 x 725/034	2 x 725/036
	Wall mounting box with hood	-	-	-
4+n WIRES	Door unit	5150/500	5150/500	5150/500
1+1 WIRES	Door unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	22 x 1035/25	25 x 1035/25	25 x 1035/25

CAMERA UNIT

The devices required to make camera units in video door phone systems with panel Ref. 725 are illustrated in the second section that follows. Information on the panel to be combined to the camera unit is provided in the first part and will not be repeated here.

The panel must be fitted with the door unit facing upwards; consequently the protective mask must be turned upside-down.
The panel flush-mounting box must be fastened to the camera flush-mounting box with the specific clip-on shims-fairleads.
The camera unit Ref. 725 consists of:
- front with flush-mounting box and lights;
- CCD camera and lens.

FRONT PLATE AND FLUSH-MOUNTING BOX UNIT

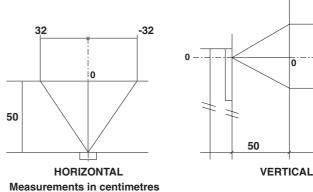
The following versions are available according to the capacity of the system:
Ref. 725/601: with front plate (width 113 mm), that can be coupled to panels Mod. 725 with 1 to 8 buttons on 1 row.
Ref. 725/602: with front plate (width 205 mm), for 4 or more buttons, that can be coupled to panels Mod. 725 with 4 to 28 buttons on 2 rows.

CCD TV CAMERA Ref. 725/600

Easy to insert and to remove from the flush-mounting box, it is supplied complete of:
- TV camera with optics and built-in shutter; the focus is fixed. Other lenses cannot be used;
- coupling for connection to the front plate.

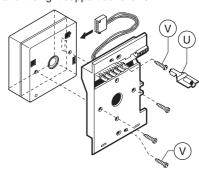
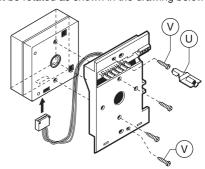
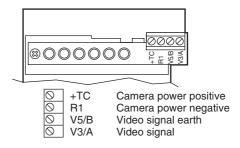
Two types of TV camera units are available:
- Ref. 725/600 (50Hz)
- Ref. 725/79 (60 Hz) – not available in Italy

CAMERA UNIT ELECTRICAL SPECIFICATIONS

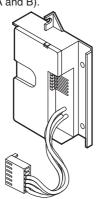
Power supply voltage:	**14 - 18 Vdc**
TV camera absorption:	**180 mA**
Shooting sensor:	**CCD - 1/2”**
Built-in lens:	**f = 5.3 mm, 1:1.3**
Built-in shutter:	**series mounted**
Focus:	**fixed**
Automatic sensitivity adjustment:	**100 - 4000 Lux**
Minimum lighting for an acceptable image:	**0.2 Lux min., 3 Lux recommended**
Video output:	**1Vpp min synchr. neg. 75 Ohm**
Operating temperature:	**-5°- 50°C**

IMAGING ANGLES

HORIZONTAL **VERTICAL**
Measurements in centimetres

ASSEMBLY

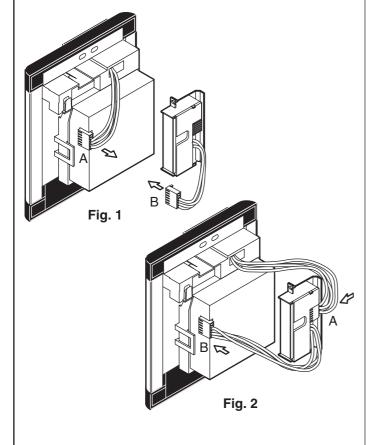
Fit the camera to the light support as follows:

For use as spare part in installations with Explorer monitor, the TV camera must be rotated as shown in the drawing below:

For connections of the TV camera units, the position of the terminals is as follows:

Terminal	Function
+TC	Camera power positive
R1	Camera power negative
V5/B	Video signal earth
V3/A	Video signal

CAMERA ADAPTER Ref. 1742/13A FOR 5 WIRE SYSTEMS

The device is used in 5 wire and Bibus digital video door phone systems
It transforms the composite video signal from the camera into two different video signals (A and B).

ADAPTER INSTALLATION

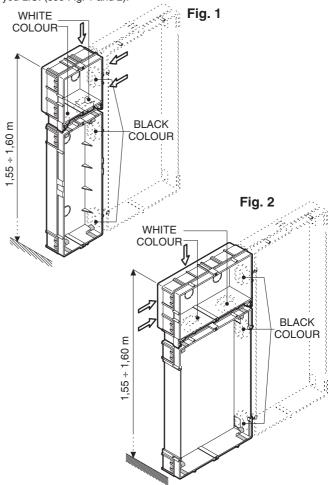
1. Remove connector A from the TV camera module (Fig. 1)
2. Insert connector A in the coupling of the device and connector B in the coupling of the TV camera (Fig. 2).
3. Position the conductors inside the groove of the device.

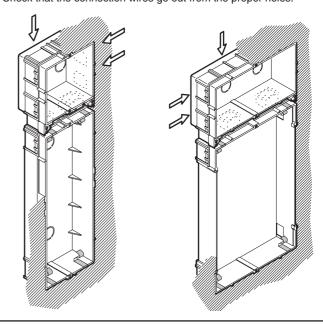
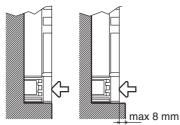
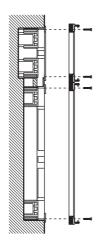
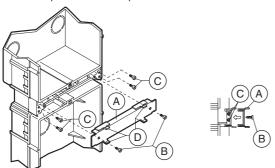
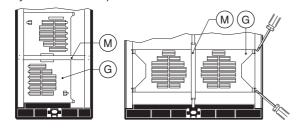
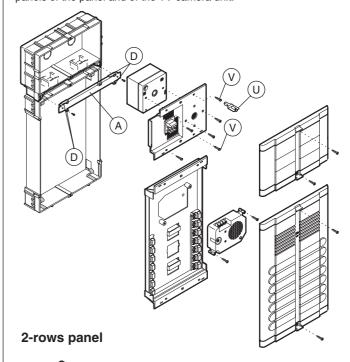
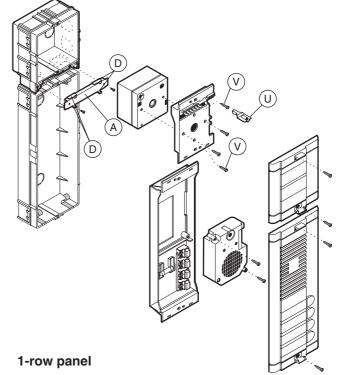
Fig. 1

Fig. 2

INSTALLATION

Join the flush-mounting box of the TV camera unit with the push button panel flush-mounting box by means of the white shim-fairleads (supplied with the TV camera unit). In case of coupling of 2 or more panels, couple the flush-mounting boxes by means of the proper black shim-fairleads supplied with the panels on 2 rows without door unit set-you L.U. (see Fig. 1 and 2).

Fig. 1

Fig. 2

Wall the flush-mounting boxes checking that the lower edge of the TV camera unit flush-mounting box is 1.55 - 1.60 m from the ground.
Check that the connection wires go out from the proper holes.

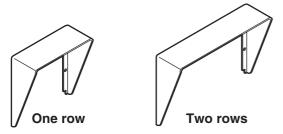
The flush-mounting box must be walled on the level with the wall surface and must not protrude (max. final protrusion allowed is 8 mm).

The wall surface on which front plate rests must be as flat as possible. The max. tolerance is 1.5 mm.
During the walling phase apply the proper adhesive stamps on the holes from the frame fixing to protect them from lime.

Once the flush-mounting boxes are walled, mount the “A” junction bracket by means of the proper screws “B” (see picture).
Screw and adjust the four “C” screws so that the junction bracket “A” is perfectly in line with the wall if the flush-mounting boxes are installed on irregular walls or panels to ensure perfect level of the installation surface.

Mount the button holder frame of the panel on the flush-mounting box, by centering it with the “**D**” tongues.
Important: The grid must be turned the other way being arranged upwards in door unit versions (with the URMET DOMUS logo readable):
- remove the “**M**” spring;
- remove the “**G**” grid by means of a screwdriver;
- rotate the grid (up-down);
- carry out the inverse operations.

Connect the power supply wire to the TV camera. Fix the TV camera to the TV camera unit by means of “**V**”. Mount the TV camera unit frame by centering it with the “**D**” tongues of the “**A**” bracket, as button holder frame of the panel.
To fix the TV camera unit, use “**V**” antitheft 3 hole-screws supplied with by means of “**U**” tool to screw.
Connect the terminal board of the TV camera unit.
Once the panel is connected to door unit, lamps, buttons, fix the front panels of the panel and of the TV camera unit.

2-rows panel

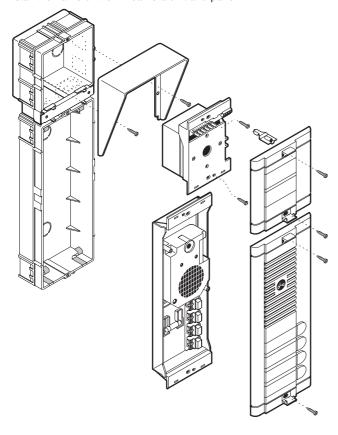
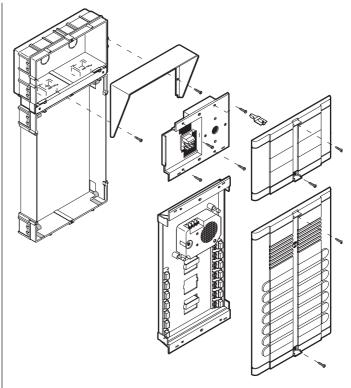
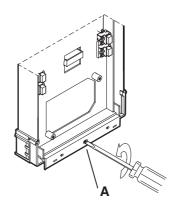
1-row panel

RAIN HOOD COVER Ref. 725/701-/702

Two rain hood cover models are available for flush-mounted versions with 1 and 2 rows of buttons.

- One row **Ref. 725/701**
- Two rows **Ref. 725/702**

Hoods cannot be used in panel configurations with more than 2 rows.

RAIN HOOD COVER INSTALLATION

Once the flush-mounting box is walled, position the rain hood cover and fix it to the housing by means of the two proper screws. Then install the frame of the TV camera unit and panel.

The button frame and the lamp holder should be removed before flush-mounting the panel in the wall. To detach the frame from the four supporting springs in the box, insert the tip of a screwdriver in slot A of the lower header and rotate by 90°.

The 4 springs are designed to push the frame against the front panel so as to assure a constant gap between the control buttons of the front panel and matching tabs of the frame.
The frame must be re-inserted on the 4 springs during connection; the door unit is then fastened to the frame.
Lastly, the front panel must be fixed to the frame with the specific screws provided.

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

DIMENSIONS

53 mm 102 mm H1 1 row 43 mm

194 mm H1 2 rows

307 mm H1 3 rows

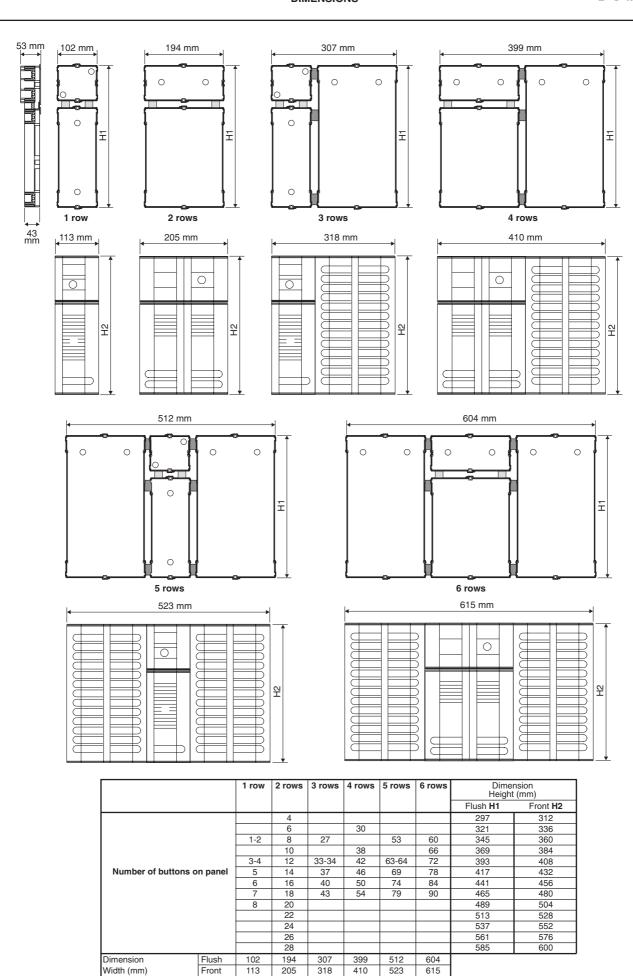
399 mm H1 4 rows

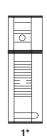
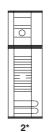
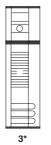
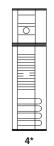
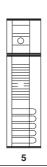
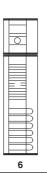
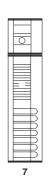
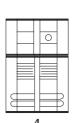
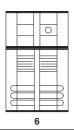
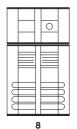
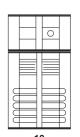
113 mm H2 | 205 mm H2 | 318 mm H2 | 410 mm H2

512 mm H1 5 rows

604 mm H1 6 rows

523 mm H2 | 615 mm H2

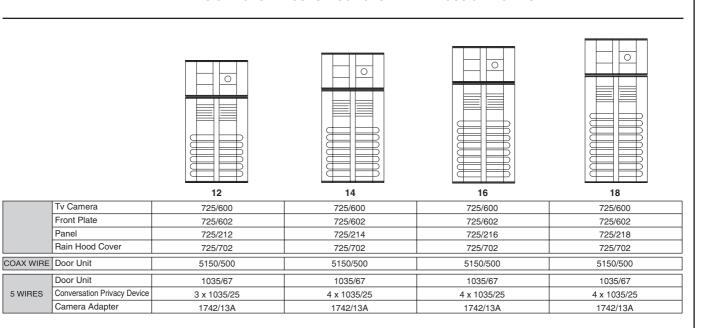
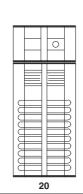
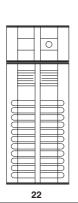
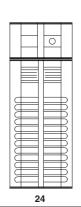
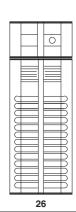
		1 row	2 rows	3 rows	4 rows	5 rows	6 rows	Dimension Height (mm) Flush **H1**	Dimension Height (mm) Front **H2**
Number of buttons on panel			4					297	312
			6		30			321	336
		1-2	8	27		53	60	345	360
			10		38		66	369	384
		3-4	12	33-34	42	63-64	72	393	408
		5	14	37	46	69	78	417	432
		6	16	40	50	74	84	441	456
		7	18	43	54	79	90	465	480
		8	20					489	504
			22					513	528
			24					537	552
			26					561	576
			28					585	600
Dimension Width (mm)	Flush	102	194	307	399	512	604		
	Front	113	205	318	410	523	615		

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		1*	2*	3*	4*
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/601	725/601	725/601	725/601
	Panel	725/101	725/102	725/103	725/104
	Rain Hood Cover	725/701	725/701	725/701	725/701
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	-	-	-	-
	Conversation Privacy Device	-	-	-	-
	Camera Adapter	-	-	-	-

		5	6	7	8
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/601	725/601	725/601	725/601
	Panel	725/105	725/106	725/107	725/108
	Rain Hood Cover	725/701	725/701	725/701	725/701
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	2 x 1035/25	2 x 1035/25	2 x 1035/25	2 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A	1742/13A

		4	6	8	10
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/602	725/602	725/602	725/602
	Panel	725/204	725/206	725/208	725/210
	Rain Hood Cover	725/702	725/702	725/702	725/702
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	1 x 1035/25	2 x 1035/25	2 x 1035/25	3 x 1035/25
	Camera Adapter	1742/13AA	1742/13A	1742/13A	1742/13A

(*) this type of panel **cannot** be used in 5 wire systems

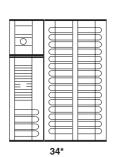
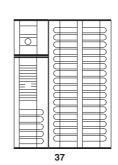
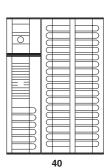
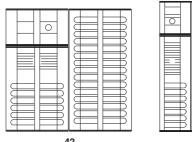
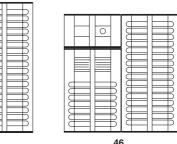
PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		12	14	16	18
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/602	725/602	725/602	725/602
	Panel	725/212	725/214	725/216	725/218
	Rain Hood Cover	725/702	725/702	725/702	725/702
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	3 x 1035/25	4 x 1035/25	4 x 1035/25	4 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A	1742/13A

		20	22	24	26
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/602	725/602	725/602	725/602
	Panel	725/220	725/222	725/224	725/226
	Rain Hood Cover	725/702	725/702	725/702	725/702
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	5 x 1035/25	6 x 1035/25	6 x 1035/25	7 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A	1742/13A

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

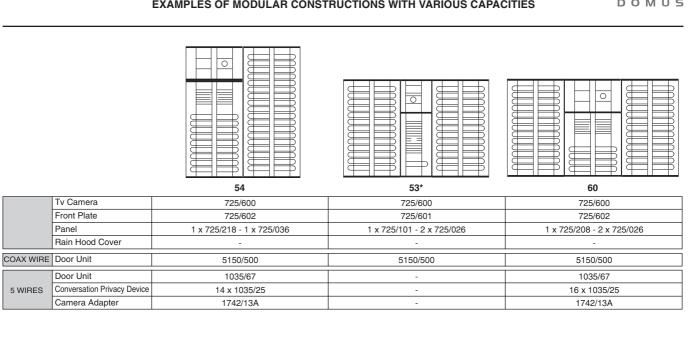
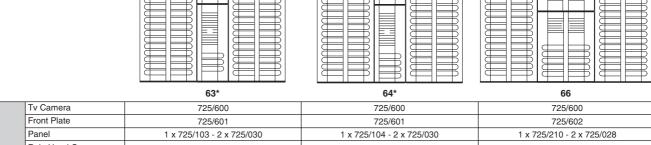
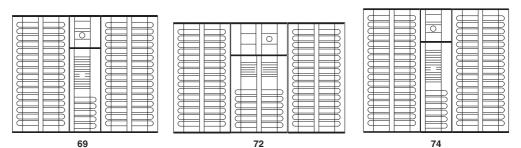
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		28	27*	30	33*
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/602	725/601	725/602	725/601
	Panel	725/228	1 x 725/101 - 1 x 725/026	1 x 725/206 - 1 x 725/024	1 x 725/103 - 1 x 725/030
	Rain Hood Cover	725/702	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	-	1035/67	-
	Conversation Privacy Device	7 x 1035/25	-	8 x 1035/25	-
	Camera Adapter	1742/13A	-	1742/13A	-

		34*	37	38	40
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/601	725/601	725/602	725/601
	Panel	1 x 725/104 - 1 x 725/030	1 x 725/105 - 1 x 725/032	1 x 725/210 - 1 x 725/028	1 x 725/106 - 1 x 725/034
	Rain Hood Cover	-	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	-	1035/67	1035/67	1035/67
	Conversation Privacy Device	-	10 x 1035/25	10 x 1035/25	11 x 1035/25
	Camera Adapter	-	1742/13A	1742/13A	1742/13A

		42	43	46	50
	Tv Camera	725/600	725/600	725/600	725/600
	Front Plate	725/602	725/601	725/602	725/602
	Panel	1 x 725/212 - 1 x 725/030	1 x 725/107 - 1 x 725/036	1 x 725/214 - 1 x 725/032	1 x 725/216 - 1 x 725/034
	Rain Hood Cover	-	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67	1035/67
	Conversation Privacy Device	11 x 1035/25	11 x 1035/25	12 x 1035/25	13 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A	1742/13A

(*) this type of panel **cannot** be used in 5 wire systems

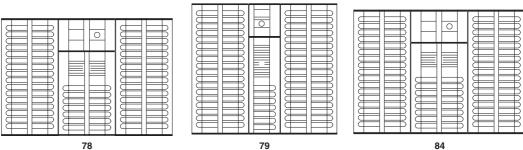
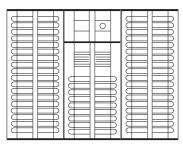
PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

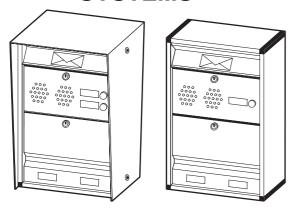
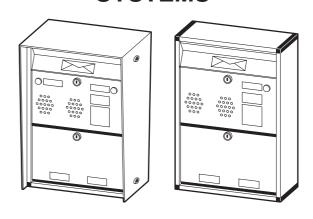
		54	53*	60
	Tv Camera	725/600	725/600	725/600
	Front Plate	725/602	725/601	725/602
	Panel	1 x 725/218 - 1 x 725/036	1 x 725/101 - 2 x 725/026	1 x 725/208 - 2 x 725/026
	Rain Hood Cover	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	-	1035/67
	Conversation Privacy Device	14 x 1035/25	-	16 x 1035/25
	Camera Adapter	1742/13A	-	1742/13A

		63*	64*	66
	Tv Camera	725/600	725/600	725/600
	Front Plate	725/601	725/601	725/602
	Panel	1 x 725/103 - 2 x 725/030	1 x 725/104 - 2 x 725/030	1 x 725/210 - 2 x 725/028
	Rain Hood Cover	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500
5 WIRES	Door Unit	-	-	1035/67
	Conversation Privacy Device	-	-	17 x 1035/25
	Camera Adapter	-	-	1742/13A

		69	72	74
	Tv Camera	725/600	725/600	725/600
	Front Plate	725/601	725/602	725/601
	Panel	1 x 725/105 - 2 x 725/032	1 x 725/212 -2 x 725/030	1 x 725/106 - 2 x 725/034
	Rain Hood Cover	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	18 x 1035/25	19 x 1035/25	20 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A

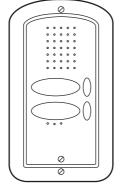
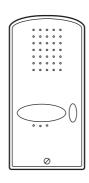
(*) this type of panel **cannot** be used in 5 wire systems

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE
VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

		78	79	84
	Tv Camera	725/600	725/600	725/600
	Front Plate	725/602	725/601	725/602
	Panel	1 x 725/214 - 2 x 725/032	1 x 725/107 - 2 x 725/036	1 x 725/216 - 2 x 725/034
	Rain Hood Cover	-	-	-
COAX WIRE	Door Unit	5150/500	5150/500	5150/500
5 WIRES	Door Unit	1035/67	1035/67	1035/67
	Conversation Privacy Device	20 x 1035/25	20 x 1035/25	22 x 1035/25
	Camera Adapter	1742/13A	1742/13A	1742/13A

		90
	Tv Camera	725/600
	Front Plate	725/602
	Panel	1 x 725/218 - 2 x 725/036
	Rain Hood Cover	-
COAX WIRE	Door Unit	5150/500
5 WIRES	Door Unit	1035/67
	Conversation Privacy Device	23 x 1035/25
	Camera Adapter	1742/13A

PANELS
625
POSTALBOX

DOOR PHONE SYSTEMS

VIDEO DOOR PHONE SYSTEMS

PANELS Mod. 1127

DOOR PHONE SYSTEMS

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PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725

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POSTALBOX PUSH BUTTON PANELS Mod. 625-P

The Postalbox panel may be used in one- and two-family house door phone and video door phone systems.
This product range is designed to integrate the post-box and the door phone or video door phone panel in a single, easy-to-install unit.
The panel may be fitted either on a wall or a gate.
Each Postalbox model has a door unit set-up.

CONFIGURATION

The panel and post-box may be used in:
- 4+n wire or 1+1 wire door phone systems;
- coax and 5 wire video door phone systems (with additionally adapter).

It is available in two models:
- WALL SURFACE MOUNTED VERSION with front opening
- GATE VERSION complete with cover and with front and rear opening

PANELS

The following versions are available:

Door phone panels for wall mounting arrangement

With 1 call button	**Ref. 625/1**
With 2 call buttons	**Ref. 625/2**

Door phone panels for gate arrangement

With 1 call button	**Ref. 625/11**
With 2 call buttons	**Ref. 625/12**

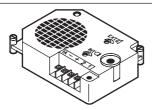
Video door phone panels for wall mounting arrangement

With 1 call button	**Ref. 625/23**
With 2 call buttons	**Ref. 625/24**

Video door phone panels for gate arrangement

With 1 call button	**Ref. 625/33**
With 2 call buttons	**Ref. 625/34**

DOOR UNITS

DOOR UNIT FOR 4+N WIRE SYSTEMS Ref. 5150/500

The amplified door unit Ref. 5150/500 is normally used in panels Mod. 625-P for making "4+n" wire door phone systems and coax video door phones.

DESCRIPTION OF TERMINALS

1 A	Electronic voice out (from speaker to door phone)
-	Door unit power negative
+	Door unit power positive
1	Traditional voice out (from speaker to door phone)
2	Voice in (from microphone to door phone)

Note: *use terminal "1A" in systems with Mod. 1131, 1132 and 1133 (Atlantico) door phones and terminal "1" for Mod. 1130 door phones.*

DOOR UNITS FOR "1+1" WIRE SYSTEMS Ref. 1035/67

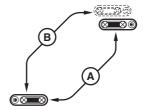
Fit door unit Ref. 1035/67 in the panel for speak-and-listen service in "1+1" wire door phone systems and 5 wire video door phone systems.

DESCRIPTION OF TERMINALS

2	Electrical lock control
4	Voice (conversation privacy device power)
PS	Tone generator output
5	(Electrical lock emergency relay control)
1/~	Door unit power earth
~	Door unit power
SN	Video power on for video door phone systems
3	Call buzzer (for Mod. 1130 door phones)

INSTRUCTIONS FOR LOUDSPEAKING UNIT ASSEMBLY

Proceed as follows to fit a door unit in a Postalbox panel:
1. Open the button and door unit compartment flap lock;
2. Fasten the device to the columns.

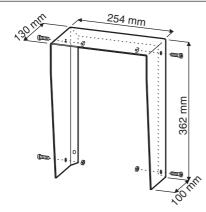
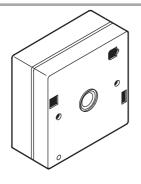
If the Ref. 5150/500 loudspeaking units are used, use the columns fastened in position **A**.
If the 1035/67 loudspeaking unit is used, use the columns fastened in position **B**.

AMPLIFICATION ADJUSTMENT

All loudspeaking units use two separate integrated circuits for amplification towards the outside and towards the inside and an electret microphone as transmitter unit.
Amplification in the two directions can be adjusted by means of two potentiometers accessible by opening the button and door unit compartment.Transmission levels are calibrated at the factory. For this reason, they should only be adjusted when absolutely necessary (e.g. to eliminate Larsen feedback). In these cases, turn the volume adjustment potentiometer outwards to avoid worsening acoustic balance. In order to adjust the external volume:
- turn the potentiometer EXT. clockwise to increase volume, counterclockwise to decrease it.

In order to adjust the internal volume:
- turn the potentiometer INT. clockwise to increase volume, counterclockwise to decrease it.

HOOD COVER

The Ref. 625/10 hood cover (made of anodized aluminum) can be used as accessory on wall surface mounting postalbox push button panels Ref. 625/1 Ref. 625/2, Ref. 625/23 and Ref. 625/24.

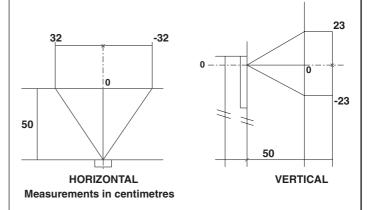
Height	Width	Sup. depth	Inf. depth	**Ref.**
362	254	130	100	**625/10**

CCD CAMERA UNIT

Easy to insert and to remove from the embedding box, it is supplied complete of:
- TV camera with optics and incorporated shutter; the focus arrangement is fixed. Other lenses cannot be used;
- coupling for connection to the front plate.

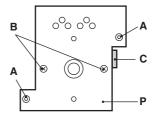
Two types of TV camera units are available:
- Ref. 725/600 (50Hz)
- Ref. 725/79 (60 Hz) – not available in Italy

CAMERA UNIT ELECTRICAL SPECIFICATIONS

Power supply voltage:	**14 ÷ 18 Vdc**
TV camera absorption:	**180 mA**
Shooting sensor:	**CCD - 1/2”**
Built-in lens:	**f = 5.3 mm, 1:1.3**
Built-in shutter:	**series mounted**
Focusing:	**fixed**
Automatic sensitivity adjustment:	**100 ÷ 4000 Lux**
Minimum lighting for an acceptable image:	**0.2 Lux min., 3 Lux recommended**
Video output:	**1V pp min synchr. neg. 75 Ohm**
Operating temperature	**-5°÷50°C**

IMAGING ANGLES

Measurements in centimetres

TV CAMERA ASSEMBLY INSTRUCTIONS

The camera must be positioned according to the type of monitor used in the system.
It is usually installed inside in order to operate with Winflat+ and Sentry+ monitors with connector **C** positioned to the right.
The position of the TV camera is shown below:

For use as spare part in installations with Explorer monitors, the TV camera must be positioned with connector **C** facing down.
To rotate the TV camera, loosen screws **A**, extract plate **P** and loosen TV camera lock screws **B**.
Arrange in the position required and perform the above operations in reverse.

For connections of the TV camera units, the position of the terminals is as follows:

+TC	Camera power positive
R1	Camera power negative
V5/B	Video signal earth
V3/A	Video signal

CAMERA ADAPTER Ref. 1742/13A FOR 5 WIRE SYSTEMS

The device is used in 5 wire and Bibus digital video door phone systems.
It transforms the composite video signal from the camera into two different video signals (A and B).

ADAPTER INSTALLATION

1. Remove connector A from the TV camera module (Fig. 1).
2. Insert connector A in the coupling of the device and connector B in the coupling of the TV camera (Fig. 2).
3. Position the conductors inside the groove of the device.

Fig. 1

Fig. 2

CONVERSATION PRIVACY DEVICE FOR "4+n" WIRE SYSTEMS Ref. 5330/60

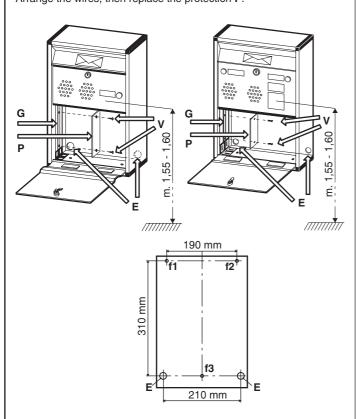
This device is used for conversation privacy function in 4+n door phone systems and coax video door phone systems, only.

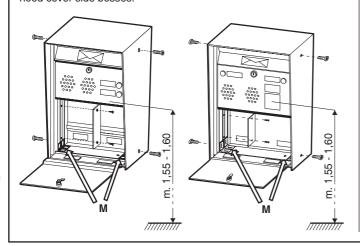
Fit device Ref. 1131/5 in each 1131 or 1132 door phone for the function; fit the video door phones on the specific conversation privacy bracket (Ref. 1202/95 for Winflat+ or Ref. 1704/95 for Sentry+).

The device shuts down privacy from previous calls and consequently ensures total privacy also if a door phone is forgotten off hook.
All devices are normally deactivated (no conversation is heard when the handset is picked up): only the device called by the panel may start a conversation with the caller; no other device can take or intercept the call.

WALL SURFACE MOUNTING VERSION

For wall fixing use three holes **f1** - **f2** - **f3** on the back plate.
The camera lens in video door phone panels and the door unit in door phone systems must be arranged at a height of 1.55 ÷ 1.60 metres from the ground.

In order to reach the push button and loud-speaking unit rooms, unlock the door.
The system wires shall pass through the holes **E**, run into the conduit **G** and enter into the loudspeaking unit room. To make this operation easier, remove the protection **P** unscrewing the two screws **V**.
Arrange the wires, then replace the protection **P**.

GATE INSTALLATION VERSION

For opening and connection, see the instructions of the wall surface mounting version, with the difference that the wires will pass from the bottom through the holes **M**.
The camera lens in video door phone panels and the door unit in door phone systems must be arranged at a height of 1.55 ÷ 1.60 metres from the ground.
For gate fixing and soldering, use the fours M4 screws, fixing them to hood cover side bosses.

DIMENSIONS

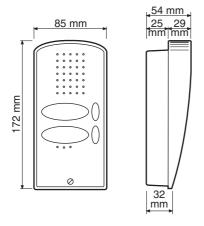
The panel dimensions are:

	Ref.	H	L	P1	P2
Wall surface mounting version	625/1 625/2 625/23 625/24	362	254	160	130
Gate mounting version	625/11 625/12 625/33 625/34	360	250	90	90

1-2 BUTTON PANELS WITH BUILT-IN SPEAKER UNIT Mod. 1127

The panel Mod. 1127 is available in door phone (4+n wires,1 or 2 users) version only; it is characterised by innovative and functional design. The box with built-in top is made of excellently trimmed plastic material. It can be semi-flush-mounted or wall mounted; it can be fitted on iron gate pillars with a special accessory. A frame is provided to correct irregularities around the mounting area.
The name tags are illuminated by high-efficiency green LEDs.
The door unit with built-in call tone generator is directly powered at 12 Vac.

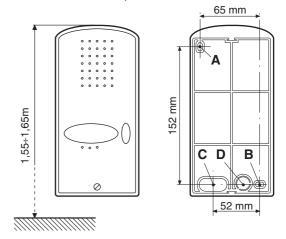
Two versions of the panel are available:

- 1 button panel with 4+n built-in door unit **Ref. 1127/1**
- 2 button panel with 4+n built-in door unit **Ref. 1127/2**

DESCRIPTION OF TERMINALS

Terminal	Description
U2	Call button (Ref. 1127/2 only)
U1	Call button
G/T	Call button common
PS	Tone generator output
1	Traditional voice out (from speaker to door phone)
1 A	Electronic voice out (from speaker to door phone)
2	Voice in (from microphone to door phone)
-	Door unit power negative
-/~	Voice ground (wire from 6 door phone terminal)
~	Door unit power
~	Door unit power

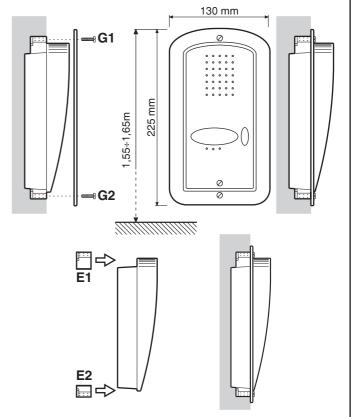
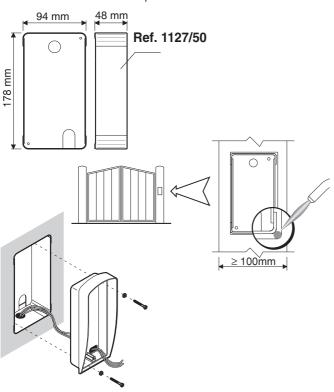
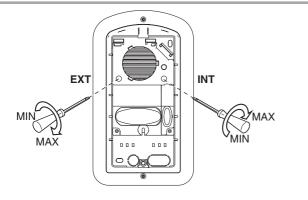
INSTALLATION

WALL-SURFACE FASTENING INSTRUCTIONS

- Arrange the wire passage using one of the specific compartments (**C** or **D**).
- Fasten the container to the wall with bolts in holes A and B at a height so that the upper part of the front panel is approximately 1.55 ÷ 1.65m from the ground.
- Connect the wires to the respective terminals.

WALL-EMBEDDING INSTRUCTIONS

- Arrange the wire passage using one of the specific compartments (**C** or **D** see “Wall mounting procedure”).
- Insert bolts **E1**-**E2**.
- Fit the container assembled in this way in the wall at a height so that the upper part of the front panel is approximately 1.55 ÷ 1.65 metres from the ground and position the top so that it rests against the wall.
- Complete the assembly by fastening the frame to the wall with two screws **G1** and **G2**.
- Connect the wires to the respective terminals.

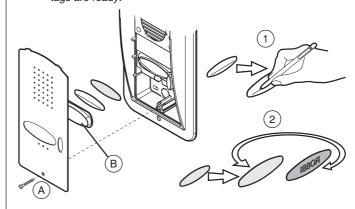
FASTENING TO GATE PILLAR WITH ACCESSORY Ref. 1127/50

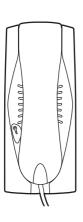
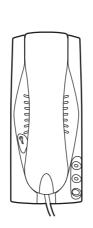
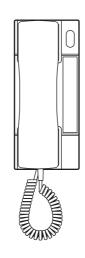
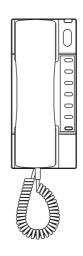
Purchase the metallic box for mounting and welding to gate pillar Ref. 1127/50 separately.
Proceed as follows:
- Fasten the metallic box to the gate at a height so that the upper part of the front panel is approximately 1.55 ÷ 1.65 metres from the ground.
- Pass the panel wires through compartment **C** (see "Wall mounting procedure").
- Fasten the pushbutton panel to the metal box using the screws and washers provided.
- Connect the wires to the respective terminals.

DOOR UNIT VOLUME ADJUSTMENT

The external stations is equipped with potentiometers for adjusting the external and internal volumes.
To adjust the external volume:
- Turn the EXT. potentiometer clockwise to turn the volume up or anticlockwise to turn it down.

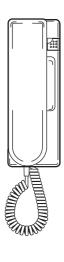
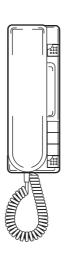
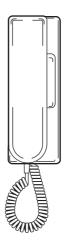
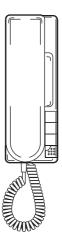
To adjust the internal volume:
- Turn the INT. potentiometer clockwise to turn the volume up or anticlockwise to turn it down.

WRITING THE NAME TAGS

Write on the name tags as follows:
- Loosen the screw "A" on the front in order to remove it.
- Remove the transparent cover "B".
- Two tags can be found underneath (one white and one printed).
  1. Write on the white tag on the side with the line.
     or
  2. Write on the printed tag on the matte side as in a mirror.

N.B.: *The white tag is usually used provisionally until the engraved tags are ready.*

APARTMENT STATION DOOR PHONES

Mod. ATLANTICO

Mod. 1131

Mod. 1130

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Mod. 1133 ATLANTICO DOOR PHONES

Electronic call Atlantico door phones model 1133 are suitable for use in "4+n" and "1+1" system types.

Characteristics of Atlantico door phones are:
- Innovative, simple, essential design by Michele De Lucchi.
- Telephone-like handset wires and connectors.
- Telephone-like handset hook switch arranged in the lower part of the top.
- Electronic call to speaker which doubles as the voice signal and call signal transducer.
- Condenser (electret) microphone.

Atlantico door phones are only white and can be either wall or tabletop mounted (order the specific tabletop transformation kit with socket for this purpose).

The following versions of the door phone are provided:
For "4+n" wire systems
- Door phone with door opener button only **Ref. 1133**
- Door phone with 1 additional button (set-up for 2 additional buttons) **Ref. 1133/1**
- Door phone with button on handset **Ref. 1133/10**
- Door phone with 2 LEDs, 1 switch and 1 button **Ref. 1133/20**

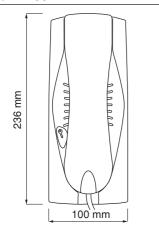
For "1+1" wire systems
- Door phone with 1 additional button **Ref. 1133/35A**

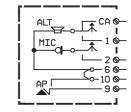
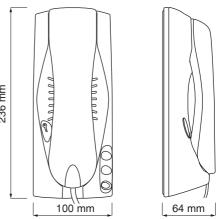
Note: *Atlantico door phones can be fitted in parallel in video door phone systems. In this case, "4+n" wire system door phones should be used in coax systems and "1+1" wire door phones should be used in 5 wire video door phone systems.*

TECHNICAL SPECIFICATIONS

Characteristics of Atlantico door phones are:
- Plastic finishing (white ABS): glossy button, embossed other parts.
- White rubber, round cross-section spiral cord with telephone plug on base on door phone.
- Dedicated button for door opener function.
- Fixed carriage terminal fitted on basic printed circuit.
- Top clipped onto base without screws.
- Handset hook system with tong in upper part of top and housing in lower part.

"4+N" WIRE SYSTEM DOOR PHONES

HOUSE PHONE WITH ONLY ONE DOOR RELEASE KEY Ref. 1133

The basic house phone **Ref. 1133** is supplied pre-engineered for connection with the outdoor station and is equipped with a single door release key: it is not possible to add other keys.

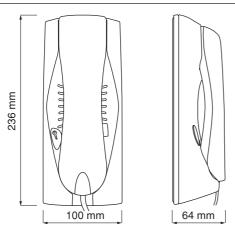
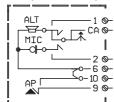
Terminal	Function
1	Door phone speaker signal
CA	Door phone call signal
2	Door phone microphone signal
6, 10	Power ground
9	Door opener control

HOUSE PHONE WITH 1 EXTRA KEY (PLUS 2 ADDITIONAL KEYS) Ref. 1133/1

The **Ref. 1133/1** house phones have the same characteristics as the basic phone. They differ from this in that an extra key (in addition obviously to the lock release key) is standard on this house phone.
The house phone is pre-engineered for addition of up to 2 additional keys. (Ref. 1133/55 set of 10 additional buttons).
The keys are independent and can be used for various auxiliary services (for example: switching on of the stair lights, opening of the secondary entrance electric lock, opening of the main entrance electric lock) or as call keys in intercom systems.
In alternative to the 3 keys you can install the mute kit + led (Ref. 1133/56)

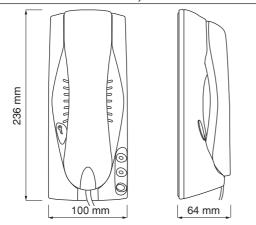
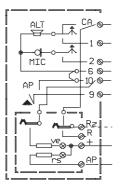
Terminal	Function
T1	Additional button (standard)
G/T	Button common

Terminal	Function
1	Door phone speaker signal
CA	Door phone call signal
2	Door phone microphone signal
6, 10	Power ground
9	Door opener control

Mod. 1133 ATLANTICO DOOR PHONES

"1+1" WIRE SYSTEM DOOR PHONES

HOUSE PHONE WITH INSERTION KEY ON THE HANDSET Ref. 1133/10

The house phone **Ref. 1133/10** has the same features as Ref.1133. The only difference is the key on the handset. This key connects the speech wires and must be held pressed for the entire duration of the conversation.
In the systems where these house phones are installed, the handset can remain unhooked without affecting the other house phones.
A door phone left off hook cannot receive call signals. This problem can be solved by inserting an additional speaker Ref. 9854/54 or additional ringer.
The 1133/10 door phone may be used only in door phone systems.

⊘	1	Door phone speaker signal with on button
⊘	CA	Door phone call signal
⊘	2	Door phone microphone signal with on button
⊘	6	Power ground
⊘	10	
⊘	9	Door opener control

HOUSE PHONE WITH 2 LEDS, 1 SWITCH Ref. 1133/20

The house phones **Ref. 1133/20** with 2 leds and 1 switch are used to provide the following services:
- possibility of cutting off the call sound ("privacy" condition);
- checking that the main door is open (with warning light);
- simultaneous door opening just pressing the call button (helpful, for example, for doctors' offices during visiting hours).

⊘	1	Door phone speaker signal
⊘	CA	Call signal to door phone speaker (without on switch)
⊘	2	Door phone microphone signal
⊘	6	Power ground
⊘	10	
⊘	9	Door opener control

⊘	Rz	Call signal from panel
⊘	R	Door opener direct from call button (only with switch at off and presence of relay Ref. 788/21: see diagram SC101-0289)
⊘	+	LEDs power positive
⊘	AP	Door open control

"1+1" WIRE SYSTEM DOOR PHONES

Ref. 1133/35A DOOR PHONE WITH 1 ADDITIONAL BUTTON

"1+1" wire system door phones **Ref. 1133/35A** offer conversation privacy, call and door opener functions in normal door phone systems with only 2 wires in the riser column:
1 common + 1 single for each device.

Ref. 1133/35A door phones are equipped with one additional button (in addition to the door opener button) already fitted and set-up for installation of up to 2 additional buttons (Ref. 1133/55 set of 10 additional buttons).
The buttons are reciprocally independent and may be used to implement auxiliary services, e.g.: staircase lights, secondary electrical lock opener, etc.

Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all door phones in the system.
All door phones are normally deactivated (no sound is heard when the handset is picked up); only the device called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.

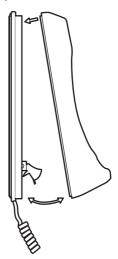
⦸	T1	Additional button (standard)
⦸	G/T	Button common
⦸	CA1	Terminal for floor call button
⦸	1	Ground
⦸	2	Call, voice and door opener signal

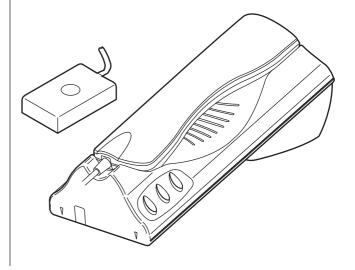
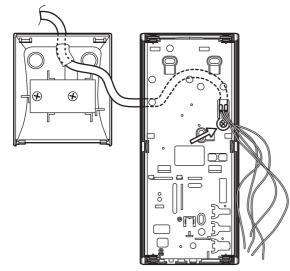
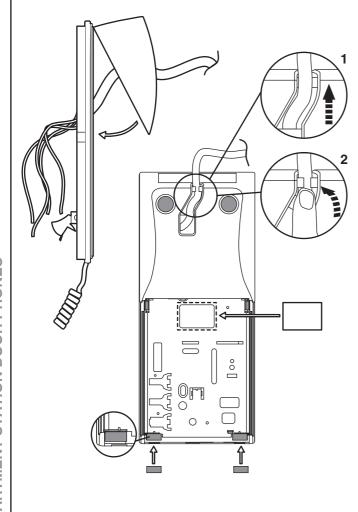
INSTALLATION

WALL VERSION

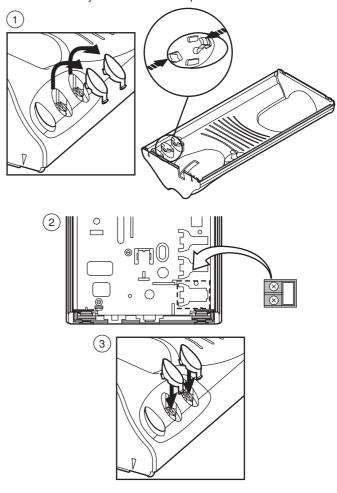
To remove the cover of the house phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.

The house phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set.

Refit the door phone top after installation.

TABLETOP VERSION

The Mod. 1133 door phone may be tabletop mounted. For this purpose, purchase a specific tabletop transformation kit Ref. 1133/50 with socket.

Assembly operations:
- Remove the door phone hood.
- Insert the wire through the tabletop stand and the door phone.

- Insert the adhesive rubbers provided under the tabletop stand under the door phone base in the specific housings.
- Apply the tabletop stand to the base of the door phone and arrange the wires in the specific housing.
- Connect the wires to the door phone terminal board.
- Close the door phone hood.
- Connect the system wires to the corresponding socket terminals.

ATLANTICO DOOR PHONE ACCESSORIES

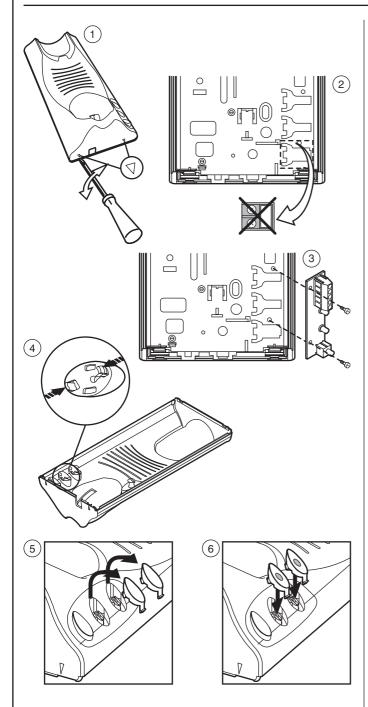
BOX OF ADDITIONAL BUTTONS Ref. 1133/55

The keys are supplied in packing of 10.
To fit the additional key on standard house phones Ref. 1133/1, proceed as follows:
1. remove the imitation key cover on the house phone cover at the position where the additional key is required to be fitted. This is done by pressing the two holding tabs on the cover and pushing outwards;
2. press the key on the house phone base;
3. fit the new key cover on the house phone cover.

MUTE KIT + LED Ref. 1133/56

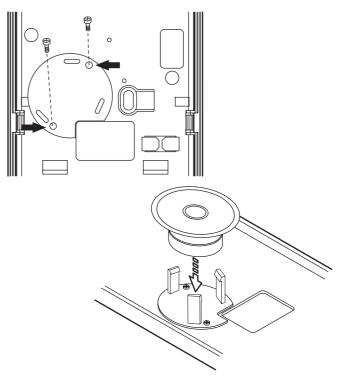
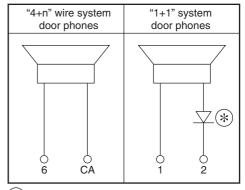
The Ref. 1133/56 accessory makes it possible to provide the following services:
- possibility of bypassing the call tone (privacy condition) with indication of de-activation with green light.
- checking that the main door is open with red light.

The accessory is inserted inside the house phone with 1 key Ref. 1133/1, occupying the space of 3 keys.

For assembly proceed follows:
1. Remove the door phone hood.
2. Remove the additional button body.
3. Screw the printed circuit to the base in the position selected.
4. Remove the three covers of the dummy keys corresponding to those on the cover.
5. Position the key and the two covers for the lights provided with the kit in the order indicated.
6. Make the connections according to the instructions of the installation diagrams.

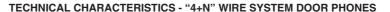
ADDITIONAL SPEAKER Ref. 9854/54

This device may be used in 1133 electronic call door phones both as the main call speaker (in parallel to that fitted in the handset if the volume is too low) and as dedicated speaker for floor calls.
This accessory can be fitted in all Atlantico door phone versions also in the presence of other call devices, such as electronic buzzers Ref. 9854/52, three-tone gong kit Ref. 1132/54 or additional floor call circuit Ref. 9854/53.

Important note: *When several door phones are installed in parallel, consider than each door phone with additional speaker connected between terminals CA and 6 counts as a double load for the tone generator (two speakers in parallel).*

For door phone assembly, firstly fasten the base with the two screws provided and then apply the speaker as shown in the figure.

For electrical connections, proceed differently according to the type of door phone:

✻ Provided with the product

ACCESSORY BOARD

Atlantico 1133 door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the “Apartment station accessories” section).

- 12 wire socket **Ref. 1130/12**
- 19 wire socket **Ref. 1130/19**
- Traditional call system adapter **Ref. 1131/7**
- Call adjustment kit **Ref. 1132/53**
- Three-tone gong kit **Ref. 1132/54**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Three-tone additional ringer **Ref. 9854/42**
- 12 Vac door phone electronic buzzer **Ref. 9854/52**
- Additional floor call device **Ref. 9854/53**
- Additional speaker **Ref. 9854/54**

HOUSE PHONE Mod. 1132

This house phone, reserved for the SCAITEL system with the same type of styling, can also be used as an alternative to the Mod. 1131 house phone in ELECTRONIC CALL HOUSE PHONE SYSTEMS.
The characteristics of the Mod. 1132 house phone are as follows:
- Electronic call on loud-speaker (the loud-speaker is used as voice and call transducer).
- Capacitor type microphone.
- Separate door release key.

The SCAITEL Mod. 1132 house phones, equipped with twisted cord are available in two basic colours, white or black, and can be used in the wall or table version; in this case, the specific table conversion kit with socket must be ordered (the table version kit is available in the white only).

The following versions of the door phone are provided:
For 4+n wire systems
- Door phone with door opener button only White **Ref. 1132**
  Black **Ref. 1132/40**
- Door phone with 1 additional button (set-up for 6 additional buttons) White **Ref. 1132/1**
  Black **Ref. 1132/41**

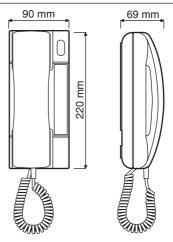
For 1+1 wire systems
- Door phone with door opener button only **Ref. 1132/35**

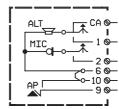
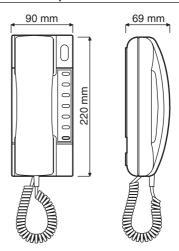
NOTE: *Scaitel door phones can be fitted in parallel in video door phone systems. In this case, "4+n" wire system door phones should be used in coax systems and "1+1" wire door phones should be used in 5 wire video door phone systems.*

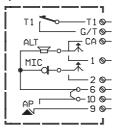
TECHNICAL CHARACTERISTICS

The main technical characteristics are:
- Handset equipped with capacitor microphone and 45 Ohm 0,3 W loudspeaker with diameter 50 mm.
- Voice circuit switching is provided by a 2-exchange commutator mounted on a printed circuit.
- The door release key is positioned beside the handset to the top right.
- The connection terminal strip to the installation is provided directly on the printed circuit which also includes the electronic components of the microphone circuit.
- The housings for the 6 additional keys, masked by a slot-in cover in the pre-engineered versions are located on the right. The captions beside the keys are engraved directly in the plastic.
- The door release key and the service keys are able to drive voltages not exceeding 24V and maximum currents of 2 A.
- Plastic finish (ABS):
  satin type for hood, base and handset, shiny for the keys.
- Climatic characteristics:
  Temperature range: **-5 ÷ 45°C**
  Humidity: **90 % RH 30°C**

"4+N" WIRE SYSTEM DOOR PHONES

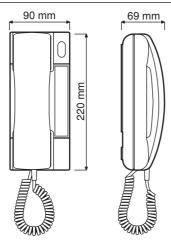
HOUSE PHONE WITH ONLY ONE DOOR RELEASE KEY Ref. 1132 AND Ref. 1132/40

The basic house phone **Ref. 1132** (white) or **Ref. 1132/40** (black) is supplied pre-engineered for connection with the outdoor station and is equipped with a single door release key: it is not possible to add other keys.

Terminal	Function
1	Door phone speaker signal
CA	Door phone call signal
2	Door phone microphone signal
6, 10	Power ground
9	Door opener control

HOUSE PHONE WITH 1 EXTRA KEY (PLUS 6 ADDITIONAL KEYS) Ref. 1132/1 AND Ref.1132/41

The **Ref. 1132/1** house phones have the same characteristics as the basic phone. They differ from this in that an extra key (in addition obviously to the lock release key) is standard on this house phone.
The house phone is pre-engineered for addition of up to 6 additional keys. (Ref. 1133/55 set of 10 additional buttons).

The keys are independent and can be used for various auxiliary services (for example: switching on of the stair lights, opening of the secondary entrance electric lock, opening of the main entrance electric lock) or as call keys in intercom systems.
In alternative to the keys you can install the mute kit + led (Ref. 113256).

⊘	T1	Additional button (standard)
⊘	G/T	Button common

⊘	1	Door phone speaker signal
⊘	CA	Door phone call signal
⊘	2	Door phone microphone signal
⊘	6	Power ground
⊘	10	Power ground
⊘	9	Door opener control

"1+1" WIRE SYSTWMS DOOR PHONES

HOUSE PHONE WITH ONLY ONE DOOR RELEASE KEY Ref. 1132/35

"1+1" wire system door phones **Ref. 1132/35** offer conversation privacy, call and door opener functions in normal door phone systems with only 2 wires in the riser column:
1 common + 1 single for each device

Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all door phones in the system.
All door phones are normally deactivated (no sound is heard when the handset is picked up); only the device called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.

⊘	CA1	Terminal for floor call button
⊘	1	Ground
⊘	2	Call, voice and door opener signal

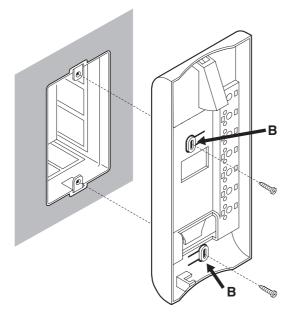
INSTALLATION

WALL VERSION

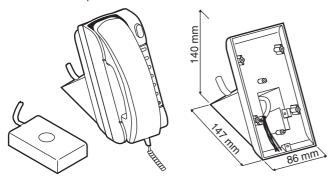
To remove the cover of the house phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.

The house phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set.

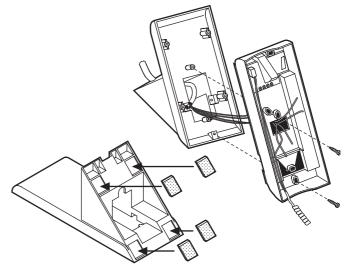
HOUSE PHONE Mod. 1132

The holes (B) may be used for fastening to the wall using rectangular 503 or American flush-mounting boxes for use with 70 mm light bulb.

Refit the door phone top after installation.

TABLETOP VERSION

The Mod. 1132 door phone may be tabletop mounted. For this purpose, purchase a specific tabletop transformation kit Ref. 1133/50 with socket Ref. 1130/19 or Ref. 1130/12 according to the number of wires in the door phone.

The sockets are white (casing and wire sheath); consequently, door phones 1132 or 1132/1 are recommended for tabletop versions due to the matching colours.

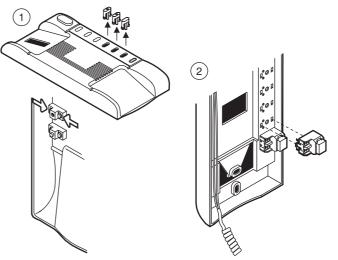
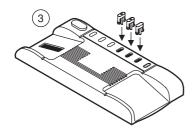
Operations to be carried up for assembly:

- Set the jumpers on the terminal strip of the house phone according to the installation required.
- Insert the 4 self-adhesive rubber pads provided under the base of the table support.
- Tighten the base of a house phone to the table support using the screws provided after inserting the conductors inside the house phone.
- Connect the conductors to the terminal strip of the house phone.
- Replace the cover of the house phone.
- Connect the conductors of the installation to the matching terminals of the socket.

SCAITEL DOOR PHONE ACCESSORIES

ADDITIONAL BUTTONS Ref. 1132/55

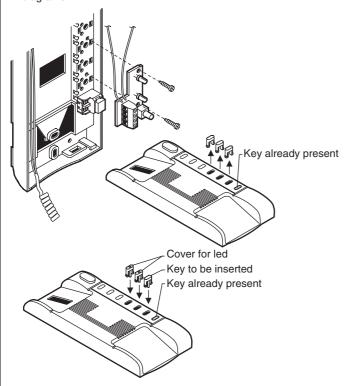
Buttons for fitting in 1132/1 and 1132/41 door phones are provided in boxes of ten.

To fit the additional key in the Mod. 1132 house phone proceed as follows:

1. Remove the cover of the dummy key on the cover of the house phone in the position in which the additional key is to be inserted; to do this, press the two tabs of the cover and push outwards.
2. Clip the key into the base of the house phone.
3. Fit the new key cover on the house phone cover.

MUTE KIT + LED

Note: *Two versions of the mute + LED kit are available: **Ref. 1132/52** and **Ref. 1132/56**. Ref. 1132/56 has a terminal instead of a wire welded to the printed circuit for power ground.*
The two accessories are equivalent for operation and assembly inside the door phone.

The mute kit + led accessory makes it possible to provide the following services:
- possibility of bypassing the call tone (privacy condition) with indication of de-activation with green light.
- checking that the main door is open with red light.

The accessory is inserted inside the house phone with 1 key Ref. 1132/1 or /41 occupying the space of 3 keys.
For assembly proceed follows:
- Screw the printed circuit to the base in the position selected.
- Remove the three covers of the dummy keys corresponding to those on the cover.
- Position the key and the two covers for the lights provided with the kit in the order indicated.
- Make the connections according to the instructions of the installation diagrams.

⦸	Rz	Call signal from panel
⦸	R	Door opener direct from call button (only with switch at off and presence of relay Ref. 788/21: see diagram SC101-0289)
⦸	+	LED power positive
⦸	AP	Door open control
⦸	10	Power ground (a wire welded to the printed circuit in Ref. 1132/52)
⦸	CA	Wire welded onto the printed circuit for connection to the door phone speaker

ACCESSORY BOARD

Scaitel 1132 door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the “Apartment station accessories” section).

- Conversation privacy device **Ref. 1131/5**
- Traditional call system adapter **Ref. 1131/7**
- 12 wire socket **Ref. 1130/12**
- 19 wire socket **Ref. 1130/19**
- Call adjustment kit **Ref. 1132/53**
- Three-tone gong kit **Ref. 1132/54**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Three-tone additional ringer **Ref. 9854/42**
- 12 Vac door phone electronic buzzer **Ref. 9854/52**
- Additional floor call device **Ref. 9854/53**

HOUSE PHONE Mod. 1131

URMET DOMUS house phone Mod. 1131 has the prestigious styling of Giugiaro design and URMET’s project.

The range of house phones Mod. 1131 has connections with the ELECTRONIC CALL SYSTEM.
The main features are the following:
- electronic call on the loudspeaker, not on the buzzer. The handset loudspeaker is used both as phonic transducer or call generator;
- electret microphone (not carbon type);
- separated door opener key (not hook lever door opener).

Important: *considering these characteristics, device Ref. 1131/7 must be fitted to use 1131 door phones in earlier systems (1130, 1030, 930, 730 and 630).*

The house phones Mod. 1131 are supplied in white colour, with a twisted cord; they can be used both as wall or table models; for the table model the corresponding socket with cord should be ordered.

The following versions of the door phone are provided:
For “4+n” wire systems
- Door phone with door opener button only **Ref. 1131**
- Door phone with 1 supplementary button (set-up for 3 additional buttons) **Ref. 1131/1**
- Door phone with button on handset **Ref. 1131/10**
- Door phone with 2 LEDs, 1 switch and 1 button **Ref. 1131/20**

For “1+1” wire systems
- Door phone with door opener button only **Ref. 1131/35**

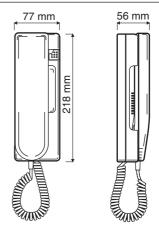
An intercom add-on (Ref. 1131/18) may be applied to the base door phone in systems where more than 4 buttons are required. The add-on is provided with 8 buttons and with a plate for stable coupling with the door phone base.

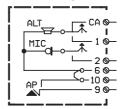
NOTA: *Mod. 1131 door phones can be fitted in parallel in video door phone systems. In this case, “4+n” wire system door phones should be used in coax systems and “1+1” wire door phones should be used in 5 wire video door phone systems.*

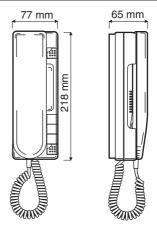
TECHNICAL FEATURES

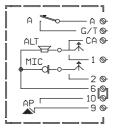
The main technical features of the house phone Mod. 1131 are:
- finishing of the plastic (in ABS): smooth for handset and cover; satin for the base, mou-thpiece, earpiece and keys;
- white twisted cord with rubber sleeve on the handset;
- the base and cover are snap-fitted with no need for fastening screws;
- wall mounting on elastic tabs;
- the handset is hooked to the cover by means of: two hooks at the top; a lower housing to prevent it from being unhooked accidentally;
- two-piece handset assembled without fastening screws, equipped with an electret microphone transmitter and a loudspeaker receiver;
- the call is carried out by sending an electronic call sound to the handset loudspeaker;
- the system connection terminal board is directly inserted on a printed circuit on which there are the electronic components, concerning he microphone circuit, and the two-exchange cell for the phonic circuit;
- the door lock release is actuated by pushing the proper separated key.

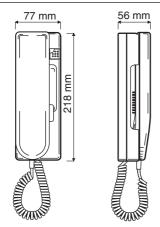
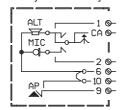
“4+N” WIRE SYSTEM DOOR PHONES

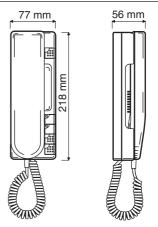
HOUSE PHONE ONLY WITH A DOOR OPENER KEY Ref. 1131

The standard house phone **Ref. 1131** is supplied ready for connection to the outdoor station. By simply breaking the jumpers on the printed circuit the following installation can be made:
- intercom connection of 2 coupled house phones;
- intercom connection from 3 to 9 house phones. In this case add to the standard house phone the add-on unit with 8 keys Ref. 1131/8.

The house phone Mod. 1131 is equipped only with the door opener key; it is not possible to add other keys.

⦸	1	Door phone speaker signal
⦸	CA	Door phone call signal
⦸	2	Door phone microphone signal
⦸	6	Power ground
⦸	10	
⦸	9	Door opener control

HOUSE PHONE WITH 1 ADDITIONAL KEY (PLUS 3 EXTRA ONES) Ref. 1131/1

The house phone **Ref. 1131/1** has the same features as the standard house phone; the difference being that it is fitted with a key (plus the door opener key).

The house phone is ready-made for the addition of 1, 2 or 3 keys Ref. 1131/100.
The keys are independent of one another and may be used for various additional services (for example: switching the stairs lights, opening secondary electric locks, opening the main electric lock instead of pressing the handset lever, etc.) or as call keys in intercom systems with up to 5 phones.

⊘	A	Additional button (standard)
⊘	G/T	Button common
⊘	CA	Door phone call signal
⊘	1	Door phone speaker signal
⊘	2	Door phone microphone signal
⊘	6	Power ground
⊘	10	Power ground
⊘	9	Door opener control

HOUSE PHONE WITH INSERTION KEY ON THE HANDSET Ref. 1131/10

The house phone **Ref. 1131/10** has the same features as Ref. 1131. The only difference is the key on the handset. This key connects the speech wires and must be held pressed for the entire duration of the conversation.
In the systems where these house phones are installed, the handset can remain unhooked without affecting the other house phones. A door phone left off hook cannot receive call signals. This problem can be solved by inserting an additional ringer.
The 1131/10 door phone may be used only in door phone systems.

⊘	1	Door phone speaker signal with on button
⊘	CA	Door phone call signal
⊘	2	Door phone microphone signal with on button
⊘	6	Power ground
⊘	10	Power ground
⊘	9	Door opener control

HOUSE PHONE WITH 2 LEDS, 1 SWITCH AND 1 KEY Ref. 1131/20

The house phones **Ref. 1131/20** with 2 leds, 1 switch and 1 key are used to provide the following services:

- possibility of cutting off the call sound ("privacy" condition);
- checking that the main door is open (with warning light);
- simultaneous door opening just pressing the call button (helpful, for example, for doctors' offices during visiting hours).

⊘	1	Door phone speaker signal
⊘	CA	Call signal to door phone speaker (without on switch)
⊘	2	Door phone microphone signal
⊘	6	Power ground
⊘	10	Power ground
⊘	9	Door opener control

⊘	Rz	Call signal from panel
⊘	R	Door opener direct from call button (only with switch at off and presence of relay Ref. 788/21: see diagram SC101-0289)
⊘	+	LEDs power positive
⊘	AP	Door open control

“1+1” WIRE SYSTEM DOOR PHONES

HOUSE PHONE WITH ONLY ONE DOOR RELEASE KEY Ref. 1131/35

“1+1” wire system door phones **Ref. 1131/35** offer conversation privacy, call and door opener functions in normal door phone systems with only 2 wires in the riser column:
1 common + 1 single for each device

Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all door phones in the system.
All door phones are normally deactivated (no sound is heard when the handset is picked up); only the device called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.

⊘	CA1	Terminal for floor call button
⊘	1	Ground
⊘	2	Call, voice and door opener signal

INSTALLATION

WALL VERSION

To remove the cover of the house phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.

The house phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set.

The holes marked “B” (see picture) are used for wall mounting using rectangular embed-ding boxes of the 503 or American type. Holes “D” (see picture) are for 70 mm diam. box.

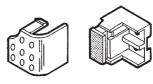
Refit the door phone top after installation.

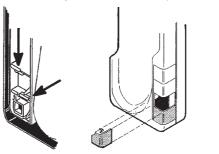
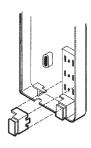
TABLE VERSION HOUSE PHONE

The Mod. 1131 house phone can also be used as table version.
In this case, the specific socket kit (Ref. 1130/12 with 12 conductors for the Ref. 1131 and Ref. 1131/1 house phones and 3 related extra keys) must be ordered separately and assembled according to the instructions.

Note: *Instead of the socket Ref.1130/12 can be used the the table mounting kit Ref.1130/120.*

Proceed as follows:
- set the jumpers on the terminal board according to the installation required;
- break portion A o n the top right-hand side of the base to pass the socket cable through;
- fix the weight plate under the base using the special screws;
- insert the two self-adhesive rubbers sup-plied with the socket in points C and D;
- insert the socket cord fixing it to hook B and connect the wires needed, cutting the exceeding ones off. Then connect the installation wires to the corresponding socket terminals;

Mod. 1131 DOOR PHONE ACCESSORIES

SINGLE KEY FOR HOUSE PHONE Ref. 1131/100

The keys are supplied in packing of 10.
To fit the additional key on standard house phones Mod. 1131, proceed as follows:
- remove the imitation key cover on the house phone cover at the position where the additional key is required to be fitted. This is done by pressing the two holding tabs on the cover and pushing outwards;
- press the key on the house phone base;
- fit the new key cover on the house phone cover.

ACCESSORY BOARD

Mod. 1131 door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the “Apartment station accessories” section).

- Conversation privacy device **Ref. 1131/5**
- Traditional call system adapter **Ref. 1131/7**
- 8 button add-on **Ref. 1131/8**
- 12 wire socket **Ref. 1130/12**
- 19 wire socket **Ref. 1130/19**
- Tabletop transformation kit **Ref. 1130/120**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Three-tone additional ringer **Ref. 9854/42**
- 12 Vac door phone electronic buzzer **Ref. 9854/52**
- Additional floor call device **Ref. 9854/53**

HOUSE PHONE Mod. 1130

The fundamental characteristic of 1130 TRADITIONAL CALL SYSTEM door phones is that the call is sent to the buzzer.
1130 door phones are ivory coloured and have a spiral cord; they can either be mounted on walls or tabletops. Order the corresponding socket and cord for tabletop arrangement.
Some versions are white.
The following versions of the door phone are provided:

- Standard door phone without buttons Ivory **Ref. 1130**
  White **Ref. 1130/50**
- Ivory door phone with 1 button
  (set-up for 3 additional buttons) **Ref. 1130/1**
- White door phone with button on handset **Ref. 1130/55**

An intercom add-on may be applied to the base door phone in systems where more than 4 buttons are required. The add-on is provided with 8 buttons and with a plate for stable coupling with the door phone base.

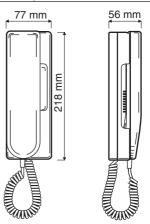
TECHNICAL SPECIFICATIONS

Characteristics of 1130 door phones are:

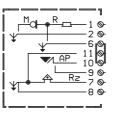
- Plastic finishing (ABS): smooth handset and hood, matte base, top lead-in and button covers.
- Colour solutions: light ivory handset and hood, cement grey base, top lead-in and button covers; alternatively white (all components made of white plastic).
- Cement grey spiral cord with rubber sleeve on handset inlet (white versions have white cord).
- Top clipped onto base without screws.
- Wall mounted on spring sockets.
- Handset rest on hood consists of: hook with two rigid side hooks in the upper part; lower container to avoid accidentally release.
- Handset made of two parts without fastening screws, equipped with a carbon transmitter capsule and receiver speaker.
- The terminal board is very reliable and forms a single body with springs and buzzer. The telephone type contact springs are parallel to the base and are sufficiently protected from tampering and accidental incorrect settings during assembly.

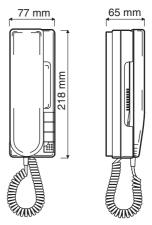
Fully press the handset hook to operate the door opener.

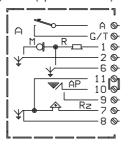
The door phone is equipped with an adjustable standard buzzer.
Move the anchor (indicated by the arrow) towards or away from the core to adjust.
The buzzer is rigidly fastened to the base with a screw.

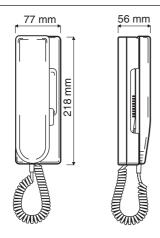
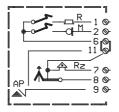
UNIFIED DOOR PHONES (IVORY Ref. 1130 AND WHITE Ref. 1130/50)

The unified door phones **Ref. 1130** or **Ref. 1130/50** are set up for connection to door phone systems.
The door phones can be adapted for use in the following systems simply by moving the bolts on the terminal board:

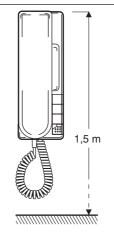
- intercom connection of 2 devices (pair);
- connection to door phone switchboard offering concierge service only or switching to door unit.

1130 door phones are equipped with door opener button only; no other buttons can be added.

Terminal	Description
1	Voice signal from door unit
2	Door unit voice in
6	Power ground
11	Power ground
10	Power ground
9	Door opener control
7	Call signal on buzzer
8	Call signal common (for door phone switchboards)

UNIFIED IVORY DOOR PHONES WITH 1 ADDITIONAL BUTTON (PLUS 3 ADDITIONAL BUTTONS) Ref. 1130/1

The characteristics of **Ref. 1130/1** door phones are the same as basic door phones.
The difference is that these models are equipped with a standard additional button (in addition to the door opener button).

The door phone are set up for the addition of 1, 2 or 3 buttons Ref. 1130/100 during assembly.
The buttons are reciprocally independent and may be used to implement auxiliary services, e.g.: staircase lights, secondary lock opening, main lock opening (when buttons are preferred for the function instead of fully pressing the handset hook, etc.) and call buttons in intercom systems (up to 5 devices).

Terminal	Function
A	Additional button (standard)
G/T	Button common
1	Voice signal from door unit
2	Door unit voice in
6, 11, 10	Power ground
9	Door opener control
7	Call signal on buzzer
8	Call signal return (for door phone switchboards)

WHITE DOOR PHONE WITH BUTTON ON HANDSET Ref. 1130/55

The characteristics of **Ref. 1130/55** door phones are the same as basic 1130 door phones.
The difference concerns the button equipping the handset. This button switches the voice circuit on and must be pressed for the entire conversation.
A door phone left off hook in systems of this kind will not lower the volume of the other devices.
1130/55 door phones are set up for connection to a door phone systems; they can be set up for connection to a door phone switchboard by moving the jumpers.

Terminal	Function
1	Door phone speaker signal with on button
2	Door phone speaker signal with on button
6, 11	Power ground
7	Call signal on buzzer
8	Call signal return (for door phone switchboards)
9	Door opener control

INSTALLATION

WALL VERSION

To remove the cover of the house phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.

The house phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set.

The holes marked “B” (see picture) are used for wall mounting using rectangular embed-ding boxes of the 503 or American type. Holes “D” (see picture) are for 70 mm diam. box.

HOUSE PHONE Mod. 1130

Refit the door phone top after installation.

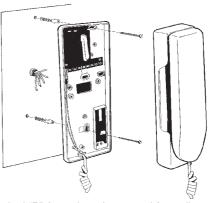
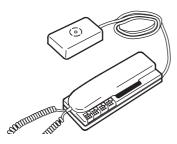
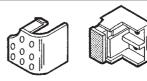



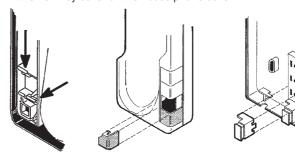
TABLE VERSION HOUSE PHONE

The Mod. 1130 house phone can also be used as table version.
In this case, the specific socket kit (Ref. 1130/12 with 12 conductors for the Ref. 1131 and Ref. 1131/1 house phones and 3 related extra keys) must be ordered separately and assembled according to the instructions.

The sockets are white (plastic parts and PVC-coated wire sheath); consequently, door phones 1130 or 50/1130 are recommended for tabletop versions due to the matching colours.

Note: *Instead of the socket Ref.1130/12 can be used the the table mounting kit Ref.1130/120.*

Proceed as follows:
- set the jumpers on the terminal board according to the installation required;
- break portion A o n the top right-hand side of the base to pass the socket cable through;
- fix the weight plate under the base using the special screws;
- insert the two self-adhesive rubbers sup-plied with the socket in points C and D;
- insert the socket cord fixing it to hook B and connect the wires needed, cutting the exceeding ones off. Then connect the installation wires to the corresponding socket terminals.

Mod. 1130 DOOR PHONE ACCESSORIES

SINGLE KEY FOR HOUSE PHONE Ref. 1131/100

The keys are supplied in packing of 10.
To fit the additional key on standard house phones Mod. 1130, proceed as follows:
- remove the imitation key cover on the house phone cover at the position where the additional key is required to be fitted. This is done by pressing the two holding tabs on the cover and pushing outwards;
- press the key on the house phone base;
- fit the new key cover on the house phone cover.

CALL REPEATER RELAY Ref. 9330/12

The call repeater relay Ref. 9330/12 may be fitted when an additional power ringer is required in parallel to the door phone buzzer.
The relay is fitted on a plate which can be clipped onto the base of the door phone and two wires which connect in parallel to the buzzer on terminals 11 and 7 of the door phone.
The contact can control a load of 1A max. 24V.

ACCESSORY BOARD

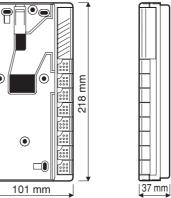
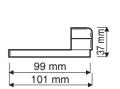
Mod. 1130 door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the "Apartment station accessories" section).

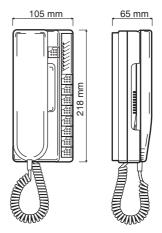
- 8 button add-on **Ref. 1131/8**
- 12 wire socket **Ref. 1130/12**
- 19 wire socket **Ref. 1130/19**
- Tabletop transformation kit **Ref. 1130/120**
- Additional outdoor ringer **Ref. 9854/40**
- Three-tone additional ringer **Ref. 9854/42**
- 12 Vac door phone electronic buzzer **Ref. 9854/52**
- Additional floor call device **Ref. 9854/53**

DOOR PHONE APARTMENT STATION ACCESSORIES

8 BUTTON ADD-ON FOR INTERCOM DOOR PHONES

The add-on is used to add 8 buttons to 1130 and 1131 door phones to make intercom systems.
Two versions of the device are available. The difference only concerns design:

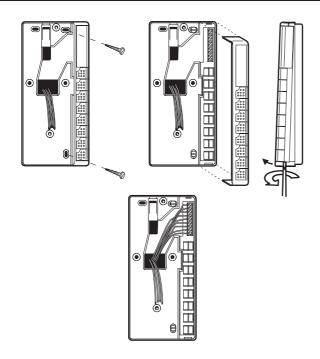
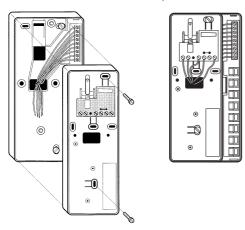
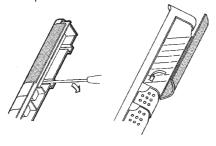
- for installation in 1130 door phones **Ref. 1130/8**
- for installation in 1131 door phones **Ref. 1131/8**

The add-on consists of a plastic base. The button set is arranged on the right; the space where to fasten the base of the door phone is on the left.
The buttons numbered from 1 to 8 are standard.
The buttons are the same as those of the door phone (in terms of appearance and size).
The add-on comprises a repertory indicating the names corresponding to the buttons over the button set.

The buttons are suitable to control voltages not exceeding 24 V with maximum current of 0.5 A.

INSTALLATION

WALL-MOUNTED VERSION

The add-on assembly procedure consists of two steps:

STEP 1 (see pictures):
- fix the base of the add-on unit to the wall using the special plugs and screws provided;
- remove the cover to have access to the terminal board and connect the cables to the corresponding terminals.

8 BUTTON ADD-ON FOR INTERCOM DOOR PHONES

STEP 2 (see pictures):
- fasten the house phone base onto the base of the add-on unit using the special screws once the cables have been passed into the house phone;
- connect the cables to the terminal board;

- write the corresponding names in the space provided on the cover of the add-on unit; the card can be freed by removing the transparent plate levering with the edge of a screwdriver from the inside;
- the plate is refitted by hooking the lower section on and then turning it upwards;
- close the house phone cover and the add-on unit cover.

TABLETOP VERSION

Order the special socket kit Ref. 1130/19 (suitable for both add-on versions) to install the door phone with intercom add-on.

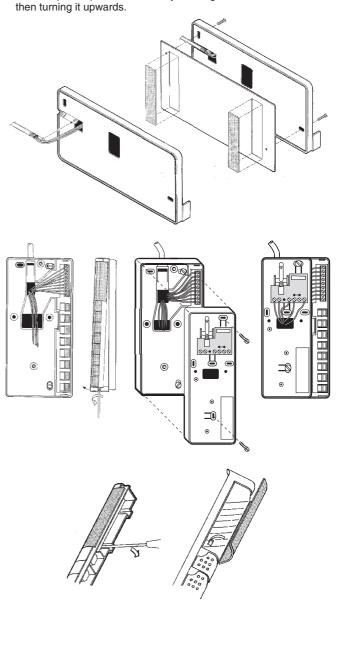
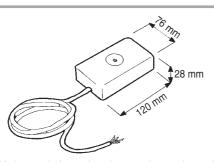
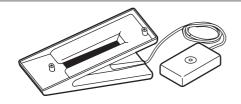
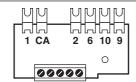
Assembly operations:
- pass the cables inside the add-on unit base and insert the edge ring in the pin provided;
- fix the weight plate under the base using two screws;
- insert the two self-adhesive rubbers supplied with the socket kit under the base;
- remove the cover of the 8-key unit base to have access to the terminal board and connect the cables to the corresponding terminals;
- fasten the house phone base onto the add-on unit base using the special screws once the cables have been passed into the house phone;
- connect the cables to the terminal board;
- close the house phone cover and the add-on unit cover;
- write the user's names in the space provided on the add-on unit cover; the card can be freed by removing the transparent plate levering it off with the edge of a screwdriver from inside;
- the transparent plate is refi tted by hooking the lower section on and then turning it upwards.

SOCKET KIT FOR TABLE VERSIONS Ref. 1130/12 AND 1130/19

The socket kit is needed to adapt house phones into table versions and it comes complete with: cord, accessories (weight plate, screws, rubber) and the instructions for installation. Two types of socket are available: with 12 cables Ref. 1130/12, for house phones without intercom add-on unit and with 19 cables Ref. 1130/19, for house phones with intercom add-on unit.

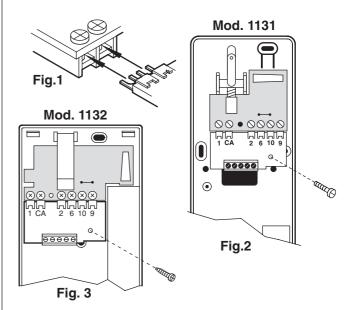
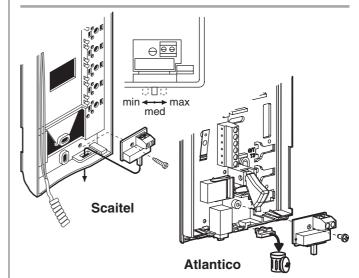
TABLE MOUNTING KIT Ref. 1130/120

The table kit Ref. 1130/120 is supplied with bracket, socket and 12-wire cord, and is available for the white version only. It can be used instead of the socket Ref. 1130/12, and fits only the house phones Mod. 1130 and Mod. 1131 without add-on unit.

CONVERSATION PRIVACY DEVICES Ref. 1131/5

Conversation privacy devices are required for 1131 and 1132 door phones in "4+n" systems only.
Insert a device Ref. 1131/5 inside each device and a deactivation device Ref. 5330/60 inside the panel to each conversation privacy for all door phones.
All door phones are normally deactivated (no sound is heard when the handset is picked up); only the device called from the door can start the conversation. No other users can cut into the call.
Door phones remain enabled for communication until the next call; each door phone is therefore released from communication with the door unit if the following call is directed to another door phone.
There are two options for opening the door with conversation privacy device:

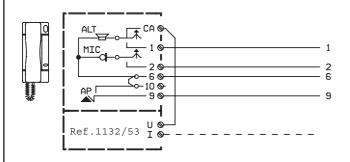
- FREE OPENING (solution A):
  door is opened whenever the handset hook is fully pressed on any door phone;
- PRIVATE OPENING (solution B):
  the electrical lock may be operated only following a call by the called door phone only.

INSTALLATION

Insert the device Ref. 1131/5 in 1131 and 1132 door phones as follows:

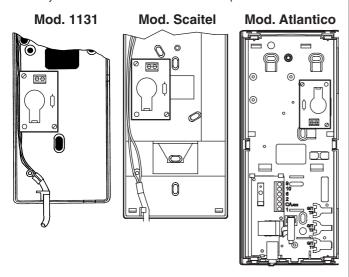
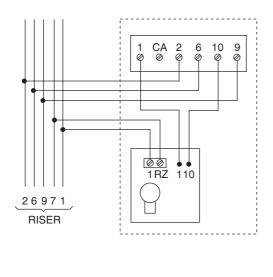
- Loosen the 6 door phone printed circuit screws half way.
- Insert the terminals of the conversation privacy printed circuit of the door phone and the terminal board nuts (fig. 1).
- Fasten the device to the base with the specific screw provided (fig. 2 or fig. 3 according to the door phone model).
- Close the 6 screws.
- Solution B only (opening enabled by call): cut-off jumper 6-10 inserted on the door phone printed circuit.

KIT FOR ADJUSTABLE CALL SOUND

Ref. 1132/53 allows to adjust the call sound which has been sent on the loudspeaker by the house phone Mod. Scaitel and Mod. Atlantico.

For assembly, fasten the printed circuit of the device in the lower area of the door phone base with the specific screw.
A lever for adjusting the volume will project from the base: minimum - medium - maximum volume.

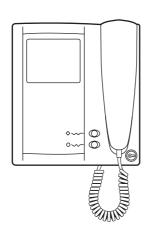
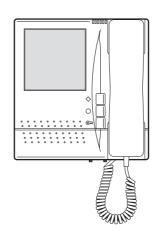
Once inserted the kit, make a jumper between terminal U of the device and CA of the house phone. The conductor of the call shall be connected to terminal I of the kit,instead that on the terminal CA of the house phone.

TRADITIONAL DOOR PHONE SYSTEM ADAPTER CIRCUIT Ref. 1131/7

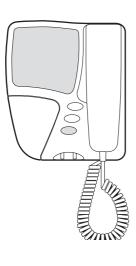
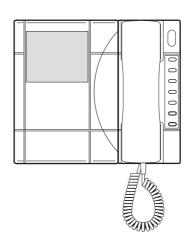
The door phone adapter circuit Ref. 1131/7 is used in 1131 and 1132 door phones with electronic call to speaker and in traditional call systems with 12Vac to buzzer.

The device can be used in basic systems and system with several doors; it cannot be used in intercom systems, 1+1 systems and systems with conversation privacy, etc.

The adapter circuit must be inserted in door phones in the position shown in the following figures according to the door phone model; obviously no other devices can be fitted in this position.

The door phone connection diagram consequently changes as shown below.

APARTMENT
VIDEO DOOR PHONE STATIONS

ONDA

WINFLAT+ / WINSPOT+

SENTRY+

SCAITEL

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MT101-013_sec.3b.pdf

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APARTMENT VIDEO DOOR PHONE STATIONS

ONDA VIDEO DOOR PHONE Mod. 1701

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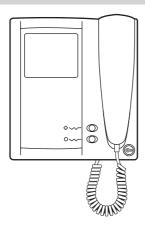
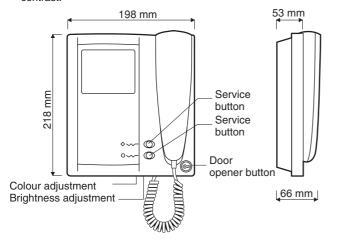
ONDA VIDEO DOOR PHONE Mod. 1701

Onda video door phone apartment station is characterised by a compact, linear design with a wide range of interchangeable coloured frames to be adapted to all architectural and furniture contexts.
The video door phone is equipped with a black & white 4” flat kinescope screen, handset and cord and telephone type plugs.
A customisation accessory kit is available in addition to the standard blue, grey and white frames. Different materials may be used, e.g. wall paper or photographs can be arranged instead of the frames provided.
Installation is easy thanks to use of “book opening” bracket and sliding terminal boards for connecting to the system.
Available Onda video door phone versions are:

- coax wire **Ref. 1701/70**
- 5-wire **Ref. 1701/30**

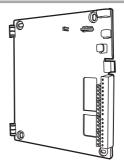
SPECIFICATIONS

Onda video door phone implements electronic call system and may be used in both 5-wire and coax systems; the video door phone is made of white ABS plastic. The device is provided with the following commands:

- Door opener with dedicated button and symbol ⚿ in relief.
- Two service buttons (◇ and ○) which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function.
- Two slider potentiometers for adjusting monitor brightness and contrast.

Note: *The Onda video door phone fastening bracket must be purchased separately.*

TECHNICAL SPECIFICATIONS

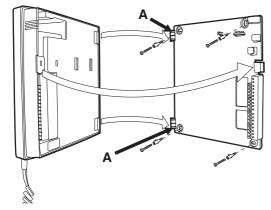
Power voltage:	**16 ÷ 18,5 Vdc**
Working uptake:	**max. 0.45 Adc**
Stand-by uptake (5-wire version):	**max. 5 mA**
Stand-by uptake (coax version):	**max. 0 mA**
Working power:	**max. 8 W**
Vertical frequency (CCIR version):	**50 Hz ± 2 Hz**
Horizontal frequency:	**15625 ± 300 Hz**
Video signal:	**1 Vpp 75Ω nominal**
	1 Vpp. -6 dB minimum
Kinescope:	**4” flat 13 mm neck**
Phosphorous:	**P45**
Screen size:	**81x59 mm**
Geometric distortion:	**vertical 5% max.**
	horizontal 5% max.
	barrel 10% max.
Brightness:	**170cd/m² max. setting**
X-rays:	**none**
Switch-on delay:	**4 sec. max.**
Transmitting capsule:	**electret microphone**
Receiving capsule:	**45Ω speaker**
Button voltage:	**24 Veff. max.**
Button current:	**1.2 A eff**
Operating temperature range:	**-5°÷+50° C**
Max. humidity:	**90% RH**

UNIVERSAL BRACKET Ref. 1701/60

The universal bracket Ref. 1701/60 is in common for the two monitor versions and is set-up with a sliding terminal board. Some terminals have two names since the bracket can be used both in 5-wire and coax systems.

Coax	5 wires	
RD	RD	Secondary monitor power in parallel
R3	G	Positive silence auto-on (video on)
R2	R2	Video door phone power positive
R1/10	R1	Video door phone power negative
V5	B	Video signal ground (5-wire positive)
V4		Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V3	A	Video signal (5-wire negative)
CA	CA	Door phone call signal
2	2	--
1	R5	--
6		Door phone power ground
6		Door phone power ground
X1	X1	Service button terminals ○
X2	X2	
Y1	Y1	Service button terminals ◇
Y2	Y2	

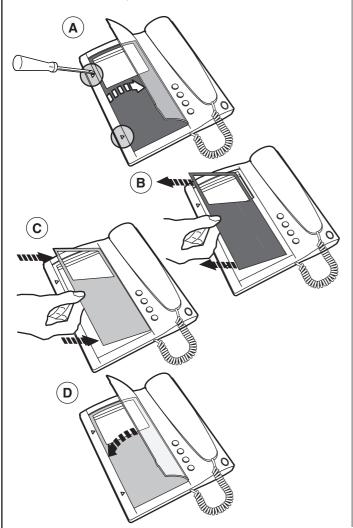
INSTALLATION

- Arrange the duct so that it ends in correspondence with the wire input hole.
- Fasten the bracket to the wall at the height from the floor shown by means of bolts.

- Connect the wires to the specific terminals.
- Fasten the video door phone to the hinges (A) of the bracket and close the device.

REPLACING THE FRAMES

The video door phone can be customised using the frames provided (blue, white and grey) or the optional kit Ref. 1701/50 consisting of five frames of the following colours:

- Anthracite
- Yellow
- Green
- Bronze
- Briar wood

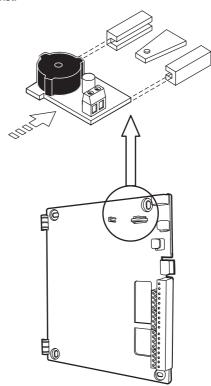
Proceed as follows to replace the frame.

The door phone can be customised with other material, e.g. photographs and wallpaper.
In this case, use one of the frames provided as a template to trace the exact installation profile.

ONDA VIDEO DOOR PHONE ACCESSORIES

ADDITIONAL BUZZER Ref. 1701/52

The additional buzzer may be used for floor calls in Onda video door phones.
This function may be obtained by powering the device at 12V (alternating or direct current).

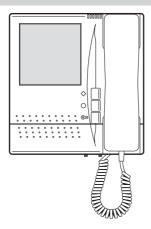
Note: *Direct current power is recommended because alternating power may cause buzzing on the conversation line, particularly in systems covering long distances.*

Proceed as shown in the figure below to install on the video door phone bracket:

IMPORTANT: No additional parallel resistor is required when the buzzer is installed in systems with relay devices Ref. 788/1 and 788/4. The resistor is built into the buzzer circuit in this case.

ACCESSORY BOARD

Onda 1133 door phone, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the “Apartment station accessories” section).

- Additional electronic call ringer **Ref. 9854/41**
- Additional three-tone ringer **Ref. 9854/42**

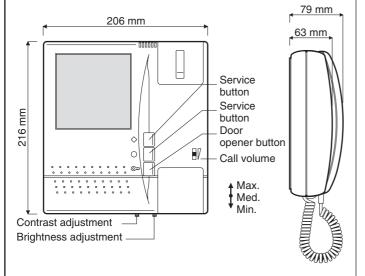
WINFLAT+ VIDEO DOOR PHONE Mod. 1202

Winflat+ video door phone apartment station, prestigiously designed by Giugiaro, is characterised by reduced projection from the wall (63 mm without handset) and implementation of a 4" flat screen. The special profile means quick and simple installation because no construction work is needed for flush-mounting.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.
The following versions are available:

- CCIR version (50Hz) **Ref. 1202/1A**
- EIA version (60Hz) **Ref. 1202/18A**

Note: *A suitable camera must be fitted in the door unit according to the transmission standard employed.*

SPECIFICATIONS

Electronic call Winflat+ video door phone (i.e. with modulate call tone) can be used in systems in combination with Sentry+ Mod. 1704 monitors and Mod. 1131, Mod. 1132 or Mod. Atlantico door phones.
The device is provided with the following controls:

- one door opening button (key symbol);
- two service buttons (◇ and ◯) which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function;
- two potentiometers for adjusting picture brightness (☼) and contrast (◑);
- one switch for three-position call tone volume adjustment (switch symbol) (maximum, medium and minimum volume).

The Winflat+ video door phone fastening bracket must be purchased separately according to the type of system to be installed. An additional buzzer or three-tone gong can be fitted on the bracket to differentiate between call tones from different panels.
Special brackets for replacing monitors out of production in traditional call systems are available.
Special add-on modules with bracket can be installed next to the basic video door phone in special or intercom systems where more buttons, LEDs and/or switches are required.
The Winflat+ monitor (basic or with add-on modules) can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5 Vdc**
Working uptake:		**max. 0.35 Adc**
Stand-by:		**0 A**
Working power:		**max. 6.5 W**
CCIR version:	Vertical frequency:	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 300 Hz**
EIA version	Vertical frequency:	**60 Hz ± 2 Hz**
	Horizontal frequency:	**15734 ± 300 Hz**
Video signal:		**1 Vpp 75 Ω nominal**
		1 Vpp. -6 dB minimum
Kinescope:		**4" flat 13 mm neck**
Phosphorous:		**P45**
Screen size:		**81 X 59 mm**
Geometric distortion:		**vertical 5% max.**
		horizontal 5% max.
		barrel 10% max.
Brightness:		**170cd/m² max. setting**
X-rays:		**none**
Switch-on delay:		**4 sec. max.**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**45 Ω speaker**
Button voltage:		**24 Veff. max.**
Button current:		**1.2 A eff**
Operating temperature range:		**-5° ÷ +50° C**
Max. humidity:		**90% RH**

WINSPOT+ VIDEO DOOR PHONE Ref. 1855/11A

Winspot+ colour video door phone apartment station, prestigiously designed by Giugiaro, ensures optimal visibility in all conditions, thanks to the use of a 4” back-lit LCD fitted on a swivelling stand.
The low projection from the wall (63 mm without handset) and the special profile means quick and simple installation because no construction work is needed for flush-mounting.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

SPECIFICATIONS

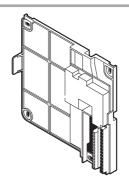
Winspot+ video door phone is only white and is provided with the following commands and adjustments:

- one door opening button (key symbol);
- two service buttons (◇ and ○) which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function;
- two potentiometers for adjusting picture brightness (brightness symbol) and colour (◐);
- one switch for three-position call tone volume adjustment (volume symbol) (minimum, medium and maximum volume);
- a control lever on the left-hand side for adjusting LCD slant for excellent vision at all times.

The Winspot+ video door phone fastening bracket must be purchased separately according to the type of system to be installed.
The Winspot+ monitor can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power voltage:	**16 ÷ 18.5 Vdc**
Working uptake:	**max. 0.35 Adc**
Stand-by:	**0 A**
Working power:	**max. 6.5 W**
Vertical frequency (CCIR version):	**50 Hz ± 2 Hz**
Horizontal frequency:	**15625 ± 300 Hz**
Video signal:	**1 Vpp 75 Ω nominal**
	1 Vpp -6 dB minimum
LCD:	**4” back-lit**
Screen size:	**81 X 59 mm**
Resolution:	**380H x 250V pixel**
Colour system:	**PAL**
Switch-on delay:	**4 sec. max.**
Transmitting capsule:	**electret microphone**
Receiving capsule:	**45 Ω speaker**
Button voltage:	**24 Veff. max.**
Button current:	**1.2 A eff**
Operating temperature range:	**-5° ÷ +50° C**
Max. humidity:	**90% RH**

BRACKETS FOR WINFLAT+ AND WINSPOT+

Winflat+ Mod. 1202 is provided without bracket; the bracket must be purchased separately according to the type of system being installed:

- bracket for coax systems **Ref. 1202/90**
- bracket for coax systems with conversation privacy function **Ref. 1202/95**
- bracket for 5-wire systems **Ref. 1202/955**
- bracket for replacing Ranger monitor in coax systems **Ref. 1202/590**
- bracket for replacing Ranger monitor in 5-wire systems **Ref. 1202/591**

Winspot+ Ref. 1855/11A video door phone, on the other hand, must be fitted on either of the following brackets:

- bracket for coax systems **Ref. 1855/90 or Ref. 1202/90**
- bracket for 5-wire systems **Ref. 1855/955 or Ref. 1202/955**

Note: *the Winspot video door phone Ref. 1855/11 must be fitted only on the following brackets: Ref. 1855/90 for coax system or Ref. 1855/955 for 5-wire system.*

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS

This type of terminal board is fitted on the following brackets:

- Ref. 1202/955
- Ref. 1855/955

Terminal	Function
R1	Video door phone power negative
R2	Video door phone power positive
A	Differential video signal negative
B	Differential video signal positive
CA	Call signal
G	Monitor silence auto-on (video only)
X1, X2	Service button terminals ○
Y1, Y2	Service button terminals ◇
RD	Secondary monitor power positive
2	Voice for door phone in parallel
R5	--

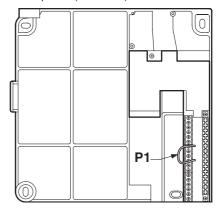
BRACKET TERMINAL BOARD FOR COAX SYSTEMS

This type of terminal board is fitted on the following brackets:

- Ref. 1202/90
- Ref. 1202/95
- Ref. 1855/90

Terminal	Function
1	Door phone speaker signal
CA	Door phone call signal
2	Door phone microphone signal
6, 10	Power ground
9	Door opener control
X1, X2	Service button terminals ○
Y1, Y2	Service button terminals ◇
R3	Silent video on
R1	Video power negative
R2	Video power positive
RD	Secondary monitor power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal

Note: *The conversation secrecy device in bracket Ref. 1202/95 offers two electrical lock operating options:*

- *normal opening, whenever the door opening button is pressed (solution A);*
- *enabled opening: cut-off jumper P1 on the bracket printed circuit; the electrical lock may be operated only by the called video door phone (solution B).*

RANGER VIDEO DOOR PHONE SYSTEM RETROFITS

Ranger video door phone Ref. 1201/1 (and respective bracket Ref.1201/90) can be replaced in traditional call coax video door phone system with Winflat+ video door phone Ref. 1202/1A and specific bracket Ref. 1202/590.
The terminals on Ref. 1202/590 brackets have the same numbers as the Ref. 1201/90 brackets to replace simply by connecting the wires in the same way.
Replacements are only possible in systems fitting Ranger basic video door phones Ref. 1201/1 with bracket Ref. 1201/90; replacement is not possible in systems with switchboards, special systems and intercom systems.

Ranger video door phone Ref. 955/5 with bracket Ref. 955/74 can be replaced in 5-wire systems using Winflat+ monitor Ref. 1202/1A with adapter bracket Ref. 1202/591. The Winflat+ bracket terminals have the same numbers as the Ranger brackets to replace simply by connecting the wires as they were in the old system. Replacement is only possible in basic systems.

INSTALLATION

The device can be wall-mounted (on a bracket) or rested on a horizontal surface by using the specific tabletop stand in addition to the bracket.

WALL-MOUNTED VERSION

Wire input: the wires can be flush-mounted and project from the wall behind the bracket; alternatively, they may be installed on the wall and reach the bracket either from the lower or the upper right sides.

1 Arrange the duct so that it ends in correspondence with one of the input holes.
2 Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
3 Connect the wires to the specific terminals.
4 Set the switch (on the monitor rear) on position A.

5 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
6 Fasten the monitor to the bracket as shown in the figure.
7 Fasten the monitor by pushing the retainer hook **A** upwards.

Bracket

Ref. 1202/1A
Ref. 1855/11A
Ref. 1202/18A

1,55 m

A

TABLETOP VERSION

Winspot+ and Winflat+ can be table-mounted using the specific kit Ref. 1202/92 containing:
one tabletop stand, one socket and one cord.

Note: *the tabletop kit Ref. 1202/92 can only be used in coax systems.*

Proceed as follows:

1 Insert the adhesive rubbers provided in the housings under the base of the tabletop mounting stand (**Fig. 1**).
2 Break the base of one of the three wire passage areas **a** shown in **Fig. 1**.
3 Insert the junction box wire in the hole and fasten it with the U-bolt and the screw provided to the tabletop stand (see **b Fig. 2**).
4 Fasten the adapter plate to the tabletop stand with the specific screws (**Fig. 2**).
5 Fasten the bracket to the adapter plate with the specific screws (**Fig. 2**).
6 Connect the junction box wires to the specific terminals on the bracket.
7 Set the switch (on the monitor rear) on position A.

8 Extract the retainer hook **A** from the monitor (**Fig. 2**).
9 Fit the monitor on the bracket and fasten it by pushing the hook **A** up.
10 Connect the system wires to the corresponding socket terminals.

a
a
a

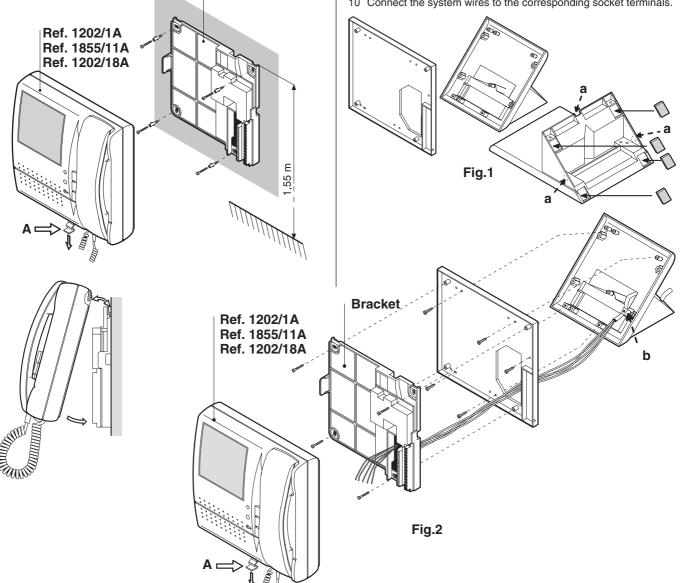
Fig.1

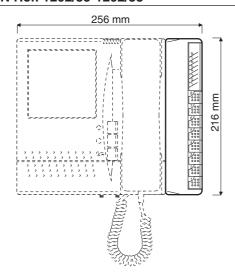
Bracket

Ref. 1202/1A
Ref. 1855/11A
Ref. 1202/18A

b

A

Fig.2

ACCESSORIES FOR WINFLAT+ AND WINSPOT+ VIDEO DOOR PHONES

ADD-ON Ref. 1202/85-1202/88

Special add-on modules with bracket can be purchased separately and combined with basic monitors in special or intercom systems where more buttons, LEDs and/or switches are required.
The add-on modules are:

- Add-on with 5 buttons, 2 LEDs and 1 switch **Ref. 1202/85**
- 8 button add-on **Ref. 1202/88**

The switch of the 1202/85 add-on can be used to:

- deactivate the call tone (with green LED will light up to indicate deactivation);
- check whether the door is open by means of the red LED in specifically set-up systems;
- install intercom systems with other 5 stations.

The Ref. 1202/88 add-on can be used to install 8 station intercom services and to operate electrical devices.

WALL-MOUNTED INSTALLATION

1. Arrange the duct so that it ends in correspondence with one of the input holes.
2. Fasten the bracket and add-on at the height from the floor shown by means of the four screws (**Fig. 1**).
3. Separate the bracket terminal board wires from the add-on wires and arrange as shown in **Fig. 2**.
   Press the tip of a screwdriver in the slots (**Fig. 3**) to remove the top and access the add-on terminal board.
4. Connect wires to respective button terminals.
5. Remove the transparent cover by levering with a screw driver inside the top area (**Fig. 4**) to access the name tag.
   To refit the cover, insert the lower part and turn it (**Fig. 5**).
6. After connecting, fit the add-on top and fasten the monitor to the bracket.
7. Set the switch (on the monitor rear) on position A.

8. To fasten the monitor, extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards (**Fig. 1**).
9. Fasten the monitor to the bracket as shown in **Fig. 6** by pushing the retainer hook **A** upwards.

A

1,55 m

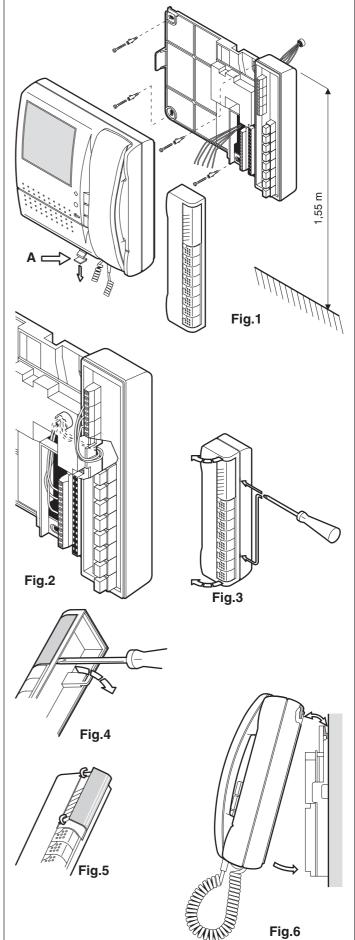
Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Fig.6

TABLETOP INSTALLATION

Use tabletop kit Ref. 1202/93 instead of Ref. 1202/92 for tabletop mounting special versions with add-on.
The tabletop kit Ref. 1202/93 includes a cord and socket in addition to the stand and the plastic adapter plate.

Note: *the tabletop kit Ref. 1202/93 can only be used in coax systems.*

Proceed as follows:

1 Insert the adhesive rubbers provided in the housings of the tabletop mounting stand (**Fig. 1**).
2 Arrange the wires using the specific pre-cut lines **a** (**Fig. 1**).
3 Insert the socket wires in the holes in the following order: 16 conductor wire in the monitor table stand; 12 conductor wire in add-on.
Fasten the wires with U-bolts and screws provided to the table stand in point **b** (**Fig. 2**).
4 Join the two table mounting stands putting the monitor stand on the left.
Assembly by fastening the adapter plate provided to the front and leading the socket wires out of the hole (**Fig. 2**). Arrange the shim **L** provided on the back after cutting areas **c** (**Fig. 1**).
5 Fasten the bracket and add-on to the adapter plate with the specific screws (**Fig. 2**).
6 Connect the wires to the socket according to the terminals of the bracket.
7 Set the switch (on the monitor rear) on position A.

8 Extract the retainer hook **A** from the monitor (**Fig. 2**).
9 Fit the monitor on the bracket and fasten it by pushing the hook **A** up.
10 Connect the system wires to the corresponding socket terminals.

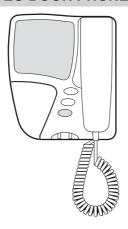
Fig.1

Fig.2

ACCESSORY BOARD

Winflat+ and Winspot+ video door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the “Apartment station accessories” section).

- Three-tone gong **Ref. 1132/54**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Additional three-tone ringer **Ref. 9854/42**
- 12 Vac door phone electronic buzzer **Ref. 9854/52**
- Floor call add-on device **Ref. 9854/53**
- Socket and flush-mounting box for plug-in systems **Ref. 7063/4**
- 16-pin plug **Ref. 7063**

SENTRY+ VIDEO DOOR PHONE Mod. 1704

Sentry+ video door phone is very versatile apartment station offering excellent performance-to-cost ratio, thanks to the use of a traditional 4.5” kinescope.
The following versions differ for the different arrangement of the cathode tube and the transmission standard:

CCIR version (50Hz)
- Basic (direct vision)
  with 1 door opener button and 2 service buttons.
  Without bracket **Ref. 1704/1A**
- Basic (reflex vision)
  with 1 door opener button and 2 service buttons.
  Without bracket **Ref. 1704/10A**

EIA version (60Hz)
- Basic (direct vision)
  with 1 door opener button and 2 service buttons.
  Without bracket **Ref. 1704/8A**
- Basic (reflex vision)
  with 1 door opener button and 2 service buttons.
  Without bracket **Ref. 1704/18A**

Note: *A suitable camera must be fitted in the door unit according to the transmission standard employed.*

The profile of the video door phone is limited to 84 mm with the use of a dedicated flush-mounting box in direct vision versions; Reflex versions (with mirror) on the other hand are similar mounted on the wall by fastening the bracket with bolts.

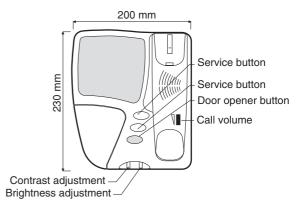
DIRECT VISION VERSION — 61 mm, 84 mm, 230 mm

REFLEX VISION VERSION — 99 mm, 230 mm

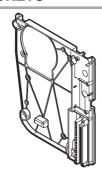
The device is provided with an additional speaker to considerably increase volume of the call.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

A reflex version which is provided with fastening bracket Ref. 1704/20A for retrofitting Explorer, Sentinel, Vidofono and Vedette video door phones.

SPECIFICATIONS

Electronic call Sentry+ video door phone (i.e. with modulate call tone) can be used in systems in combination with Sentry+ Mod. 1202 monitors and Mod. 1131, Mod. 1132 or Mod. Atlantico door phones.
The device is provided with the following controls:
- one door opening button ( );
- two service buttons (and) which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function;
- two potentiometers for adjusting picture brightness ( ) and contrast ( );
- one switch for three-position call tone volume adjustment ( ) (minimum, medium and maximum volume).

The Sentry+ video door phone fastening bracket must be purchased separately according to the type of system to be installed. An additional buzzer or three-tone gong can be fitted on the bracket to differentiated between call tones from different panels.
Sentry+ direct vision versions can be tabletop mounted by using the specific transformation kit.

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5 V dc**
Intake:	**Working:**	**max. 0.65 A**
	Stand-by:	**0 A**
Power:	**Working:**	**max. 12 W**
CCIR version:	**Vertical frequency**	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 400 Hz**
EIA version:	**Vertical frequency**	**60 Hz ± 2 Hz**
	Horizontal frequency:	**15734 ± 400 Hz**
Video signal:		**1 Vpp 75 Ω nominal**
		1Vpp. -6 dB minimum
Kinescope:		**4.5” 90° neck 20 mm**
Switch-on delay:		**7” max.**
X-rays:		**none**
Operating temperature range:		**-5°÷ + 50° C**
Humidity:		**max. 90% RH**

SENTRY+ BRACKETS

Sentry+ video door phone is provided without fastening bracket which must be purchased separately according to the system being installed:

- Bracket for coax systems **Ref. 1704/90**
- Bracket for systems with conversation privacy **Ref. 1704/95**
- Bracket for 5-wire systems (without coax) **Ref. 1704/955**

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS

This type of terminal board is fitted on Ref. 1704/955 brackets:

Terminal	Function
2	Voice for door phone in parallel
1	Earth for door phone in parallel
R3	Silent video on
B	Differential video signal positive
A	Differential video signal negative
R5	--
CA	Call signal
R2	Video door phone power positive
R1	Video door phone power negative
Y1	Service button terminals ◇
Y2	
X1	Service button terminals ○
X2	
RT	Secondary monitor power positive
R4	--

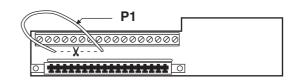
BRACKET TERMINAL BOARD FOR COAX SYSTEMS

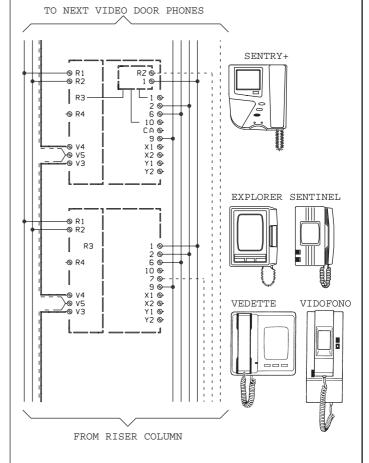
This type of terminal board is fitted on the following brackets:

- Ref. 1704/90
- Ref. 1704/95

Terminal	Function
1	Door phone speaker signal
CA	Door phone call signal
2	Door phone microphone signal
6	Power ground
10	
9	Door opener control
X1	Service button terminals ○
X2	
Y1	Service button terminals ◇
Y2	
R3	Silent video on
R1	Video power negative
R2	Video power positive
RT	Secondary monitor power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal

Note: *The conversation secrecy device in bracket Ref. 1704/95 offers two electrical lock operating options:*

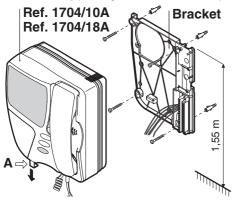
- *normal opening, whenever the door opening button is pressed (solution A);*
- *enabled opening: cut-off jumper P1 on the bracket printed circuit; the electrical lock may be operated only by the called video door phone (solution B).*

RETROFITTING TRADITIONAL SYSTEMS WITH SENTRY+ VIDEO DOOR PHONE Ref. 1704/20A

Explorer, Vedette and Sentinel video door phone can be replaced with Sentry+ Ref. 1704/20A monitor in coax and traditional call (12 Vac) video door phone systems.
Sentry+ Ref. 1704/20A is a video door phone with a 4.5” kinescope screen arranged on the longest side in the horizontal direction.
The Sentry+ Ref. 1704/20A bracket terminals have the same numbers as the Explorer, Vedette, Sentinel and Vidofono terminal boards to simply connect the wires in the same way.
The monitor cannot be used in switchboard or intercom systems because the bracket is not suitable to replace all versions.
Sentry+ Ref. 1704/20A is complete with bracket and white. The monitor is a reflex version; brightness and contrast can be adjusted by means of the controls. The call signal must be sent to the buzzer on the bracket and not to terminal CA.
Sentry+ Ref. 1704/20A video door phone is used to view the picture from a camera arranged to frame a field with the longest side arranged vertically. This arrangement causes a 25 to 30% reduction of the framed field with respect to Explorer, Vedette, Sentinel and Vidofono monitors.

INSTALLATION

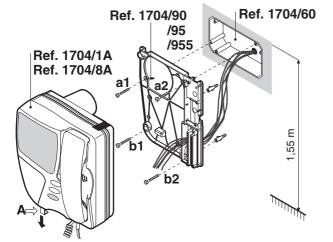
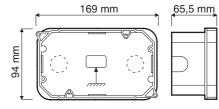
REFLEX VERSION WALL-MOUNTING PROCEDURE

Arrange the duct so that it ends in correspondence with the input hole on the bracket and proceed as follows:

1 Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
2 Connect the wires to the specific terminals.
3 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
4 Set the switch (on the monitor rear) on position A.

5 Fasten the monitor to the bracket.
6 Fasten the monitor by pushing the retainer hook **A** upwards.

DIRECT VISION VERSION WALL-MOUNTING PROCEDURE

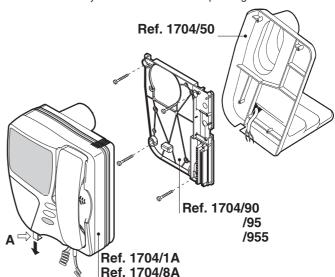
1 Install the flush-mounting box with the longest side arranged horizontally at the recommended height from the floor shown in the figure.
2 Fasten the bracket to the flush-mounting box by means of the two screws **a1** and **a2**.
3 Fasten the bracket to the wall by means of the two bolts **b1** and **b2**.
4 Connect the wires to the specific terminals. In the case of installations with add-on, connect the wires to the add-on terminals.
5 Extract the retainer hook **A**.
6 Set the switch (on the monitor rear) on position A.

7 Insert the monitor in the bracket.
8 Fasten the monitor by pushing the hook **A** upwards.

The dimensions of the flush-mounting box Ref. 1704/60 expressed in mm are shown in the figure:

TABLETOP VERSION

Use tabletop transformation kit Ref. 1704/50 with plastic stand, cord and socket for video door phone direct vision version Ref. 1704/1A or Ref. 1704/8A tabletop mounting.

Proceed as follows:

1 Fasten the bracket to the tabletop stand by means of the four screws and arrange as shown in the figure.
2 Connect the wires from the socket to the specific terminals.
3 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
4 Set the switch (on the monitor rear) on position A.

5 Fasten the monitor to the bracket.
6 Fasten the monitor by pushing the retainer hook **A** upwards.
7 Connect the system wires to the corresponding socket terminals.

ACCESSORIES FOR SENTRY+ VIDEO DOOR PHONES

ACCESSORY BOARD

Sentry+ video door phones, in addition to the accessories listed in the previous section, can be equipped with the following devices (described in the "Apartment station accessories" section).

- Three-tone gong **Ref. 1132/54**
- Additional outdoor ringer **Ref. 9854/40**
- Additional electronic call ringer **Ref. 9854/41**
- Additional three-tone ringer **Ref. 9854/42**
- 12 V ac door phone electronic buzzer **Ref. 9854/52**
- Floor call add-on device **Ref. 9854/53**
- Socket and flush-mounting box for plug-in systems **Ref. 7063/4**
- 16-pin plug **Ref. 7063**

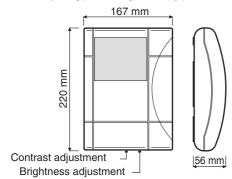
SCAITEL VIDEO MODULE Mod. 1732

Mod. 1732 video module is a monitor whose most important characteristic is that of being used in combination with other Scaitel devices which present the same design.
The device can be used in combination with other Scaitel devices (e.g. door phone or picture memory module) to create a basic video door phone (video module with door phone) or complex device (video module with door phone and picture memory).
The video module implements both CCIR and EIA transmission standards:

- CCIR version (50Hz) **Ref. 1732/1**
- EIA version (60Hz) **Ref. 1732/18**

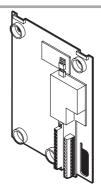
Note: *Suitable cameras must be fitted in the door unit according to the transmission standard of the monitor.*

SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (☼) and contrast (◑).

The video module can be installed next to other Scaitel modules by means of brackets provided and fastened to the wall by means of a bracket with connector and terminal board.
The monitor (basic or with add-on modules) can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power:		**16 ÷18.5 Vdc**
Consumption:		**0.35 A max. working 0 mA stand-by**
Power:		**6.5 W max. working**
CCIR version:	**Vertical frequency:**	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 400 Hz**
EIA version:	**Vertical frequency:**	**60 Hz ± 2 Hz**
	Horizontal frequency:	**15734 ± 400 Hz**
Resolution:		**400 lines in middle of screen**
Video input:		**1 Vpp-75 Ohm nominal 1 Vpp -6dB min.**
Kinescope:		**4" flat**
Phosphorous:		**P45**
Screen size:		**81 x 59 mm**
Geometric distortion:		**vertical 8% max. - horizontal 12% max.**
• Brightness:		**170 cd/m² max. setting**
• Controls:		**Brightness and contrast**
• Working temperature range:		**- 5 + 45°C**
• Storage temperature range:		**-20 + 60°C**
• Humidity:		**90 % RH max.**

VIDEO MODULE BRACKET

The bracket for installing the video module must be purchased separately. There are two types of brackets according to the system where they will be installed:

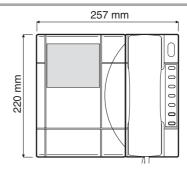
- Bracket for coax systems **Ref. 1732/91**
- Bracket for 5-wire systems **Ref. 1732/955**

BRACKET TERMINAL BOARD FOR 5-WIRE SYSTEMS Ref. 1732/955

Terminal	Description
1	Earth for door phone in parallel
2	Voice for door phone in parallel
CA	Call signal
R5	--
B	Differential video signal positive
A	Differential video signal negative
R1	Video door phone power negative
R2	Video door phone power positive
RD	Secondary monitor power positive
R3	Silent video on

BRACKET TERMINAL BOARD FOR COAX SYSTEMS Ref. 1732/91

Terminal	Description
CA	Call signal
R3	Silent video on
R1	Video power negative
R2	Video power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal
RD	Secondary monitor power positive

VIDEO DOOR PHONE (VIDEO + DOOR PHONE MODULE)

Combine door phone Ref. 1132/1 in coax systems or door phone Ref. 1132/35 in 5-wire systems to make a video door phone.
Always fit the video module on the left.

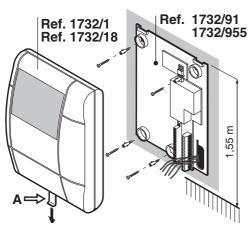
Note: *See "Door phone apartment stations" section for more detailed information on Scaitel door phones.*

INSTALLATION

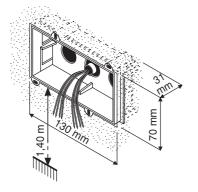
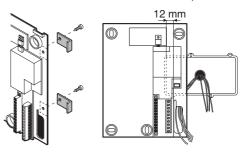
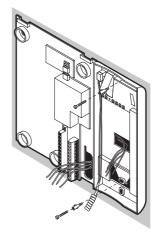
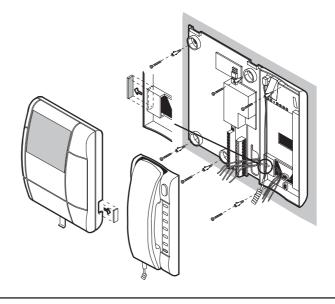
The video module, as shown, can be used separately or in combination with 1132 door phone model or 1332 door telephone model.
The door telephone can either be installed separately or in combination with telephone interface and PABX 1/5 and 2/8 switchboards.
In all configurations, the video module must be arranged on the left and the door telephone on the right (the telephone interface and the PABX telephone switchboards, where relevant, must also be positioned immediately to the left of the door telephone).
Refer to the Integrated Systems technical manual for details.

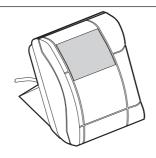
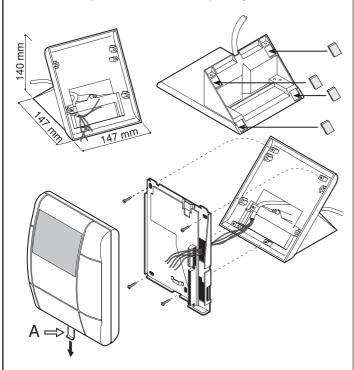
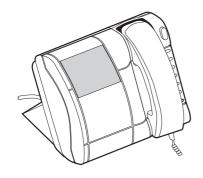
WALL-MOUNTED VERSION

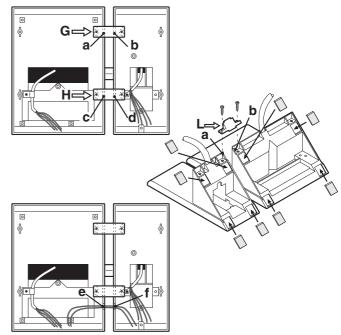
VIDEO MODULE

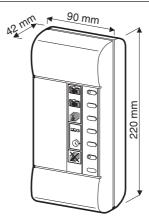
Proceed as follows to fasten the video module only:
- Arrange the duct so that it ends in correspondence with the input hole.
- Fasten the bracket to the wall at the height from the floor shown by means of bolts.
- Connect the wires to the specific terminals.
- Extract the stop bolt **A**.
- Fasten the monitor to the bracket and lock the device by pushing the bolt “**A**” inwards.

VIDEO DOOR PHONE (VIDEO + DOOR PHONE MODULE)

Two installation arrangements are possible:
with or without flush-mounting box. In any case, plate kit Ref. 1032/59 will be needed to join the devices.

INSTALLATION WITH FLUSH-MOUNTING BOX
Use the big flush-mounting box Ref. 1032/51.
Proceed as follows:
- Install the box in line with the wall at a height of 1.40 m from the floor considering that the monitor will be arranged approximately 10 cm to the left of the flush-mounting box.
- Lead all the wires out of the flush-mounting box and prepare to direct them to the respective connections of the monitor and the door phone through the corresponding holes in the bracket and the door phone base.

- Fit the two L-brackets for fitting the base of the door phone before fastening the monitor bracket to the wall.
  Fasten the monitor bracket so that the upper part of the wire input is in line with the inner wall of the box and the left part is 12 mm away.

- Fasten the bracket by means of the bolts, position the door phone base on the two tabs and fasten to the wall.
- Connect the wires to the specific terminals and then fasten the video module and the door phone top.

INSTALLATION WITHOUT FLUSH-MOUNTING BOX
Fit the two L-brackets for fitting the base of the door phone before fastening the monitor bracket to the wall.
- Fasten the bracket by means of the bolts, position the door phone base on the two tabs and fasten to the wall.
- Arrange the wire output in correspondence with the output hole.
- Follow the indications in the figure for interconnections between video module and door phone after cutting the areas in the top sides.
- Connect the wires to the specific terminals and then fasten the video module and the door phone top.

TABLETOP VERSION

VIDEO MODULE

Use the tabletop transformation kit **Ref. 1732/56**.
Proceed as follows:
- Insert the four adhesive rubbers provided in the housings under the base of the table mounting stand.
- Fasten the bracket by means of the specific screws.
- Connect the junction box wires to the specific terminals on the bracket.
- Extract the stop bolt A from the monitor.
- Fasten the monitor to the bracket and lock it by pushing the bolt A inwards.
- Connect the system wires to the corresponding socket terminals.

VIDEO DOOR PHONES (VIDEO + DOOR PHONE MODULE)

Use the tabletop transformation kit **Ref. 1732/56** (for video module) and **Ref. 1132/50** (for door phone).

Proceed as follows:
- Insert the adhesive rubbers provided in the housings of the tabletop mounting stand.
- Join the two table mounting stands putting the monitor stand on the left.
  Assemble by fastening the two flat plates **G**, **H** (**Ref. 1032/55**) on the front and positioning and fastening the shim **L** provided on the back.
  Cut the corresponding areas **a**, **b**, **c**, **d** on the corresponding walls; cut walls **a**, **b** to position shim **L**.
- Fasten the monitor bracket and the base of the door phone to the corresponding stands by means of the specific screws as shown.
- Connect the socket wires to the specific terminals.
- Follow the indications in the figure for interconnections between video module and door phone after cutting the areas **e**, **f**, in the table stand sides.
- Extract the stop bolt **A** from the monitor.
- Fasten the monitor to the bracket and lock it by pushing the bolt **A** upwards.
- Fasten the door phone to the base.
- Connect the system wires to the corresponding socket terminals.

SCAITEL VIDEO MODULE ACCESSORIES

PICTURE MEMORY MODULE Ref. 1750/32

The picture memory module used in combination with a video module can store up to 32 pictures.

PERFORMANCE

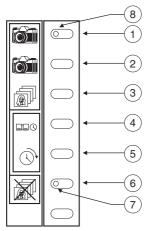
Note: *This device may be installed only in coax systems with video module CCIR version (50Hz) Ref. 1732/1.*

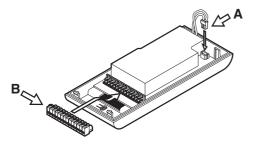
The 32 pictures may be stored either automatically or manually with indications of date and time.
The stored pictures can be recalled and cancelled at any time.
A battery arranged inside the module permits storage of pictures and date/time settings in the event of blackout for approximately four hours.

The monitor will be switched off at the end of each operation after approximately 2 minutes from the last command.
Storage occurs after a programmed time of approximately 3 seconds from the call and is blocked for the following 30 seconds.
If the device has stored the 32 pictures, the first picture will be deleted and the new picture will be stored.

The video module to which the picture module is combined must be powered locally by a power unit Ref. 789/2.

STRUCTURE

The module is equipped with 6 control buttons and 2 LEDs for the following functions:

- **Button (1)** Automatic storage
- **Button (2)** Manual storage
- **Button (3)** View pictures
- **Button (4)** Select date/time
- **Button (5)** Set date/time
- **Button (6)** Clear memory
- **Red LED (7)**
  - **off**: stand-by
  - **on**: ready to store
  - **blinking**: stored
- **Green LED (8)**
  - **off**: power off
  - **on**: power on
  - **blinking**: confirmation

An extractable terminal board **B** is provided inside the module to connect to the system.

Engage the terminal board as shown in the drawing.

TECHNICAL SPECIFICATIONS

The outer surfaces of the picture memory module are matte; the buttons are shiny.
The connections are made using screw-on terminal boards and clamps.
The maximum cross-section area of the wires to be connected to the terminal boards is 1.5 mm².

The casing is made of self-extinguishing ABS plastic.

Power:	**21 +/- 2 Vdc**
Consumption:	**300 mA max.**
Back-up:	**4 hours with charged buffer battery**
Memories:	**32 complete pictures**
Resolution:	**256 x 256 pixels**
Temperature:	**-10 / +50 °C**
Humidity	**90% RH at 30°C.**

OPERATION

AUTOMATIC STORAGE

Press button (1) Automatic storage to set the device to store pictures automatically:
- The corresponding red LED will light up immediately.
- The picture from the camera will be stored approximately 3 seconds after each call.
- The red LED will start blinking to indicate that a picture has been stored.

Press button **(1)** *Automatic storage* again to deactivate the function.
The red LED (on or blinking) will go out.

All functions are deactivated to avoid repeated storage and incorrect operation for 30 seconds after automatic storage.

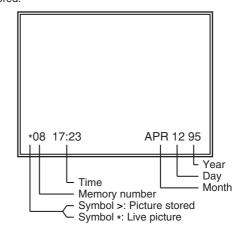
<u>**Important**</u>: No other commands are accepted when the device is in automatic storage mode.

MANUAL STORAGE

Press the *Manual storage* **(2)** button after a call (or during auto-on, where relevant) to instantly store the picture.

Note:
- *Up to 32 pictures can be stored. Additional storage of pictures is managed on a first-in-first-out basis.*
- *The green LED associated to the Clear memory button (**6**) indicates that the device is powered. This LED also goes out for an instant whenever the following buttons are pressed: Manual storage (**2**), View pictures (**3**) and Select date/time (**4**) in sign of confirmation.*

VIEW PICTURES

Press the *View pictures* (**3**) button to view the pictures in the order they were stored.

The following indications appear:
A grey screen with * symbol will appear after viewing all the stored pictures.
It is advisable to end stored picture viewing in this way.

ADJUSTING DATE AND TIME
The date and time will need to be adjusted during installation and if the buffer battery is completely flat.

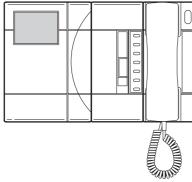
Proceed as follows for this operation:

1. Press *Select date/time* (**4**).
   The monitor will light up and two dashes will appear instead of the time.
2. Press *Set date/time* (**5**) to set the correct value; press *Select date/time* (**4**) again to go to the next indications.

The operation will end automatically after setting the year.

CLEAR MEMORY
Hold *Clear memory* (**6**) for longer than 3 seconds to clear the stored pictures.

CONFIGURATIONS

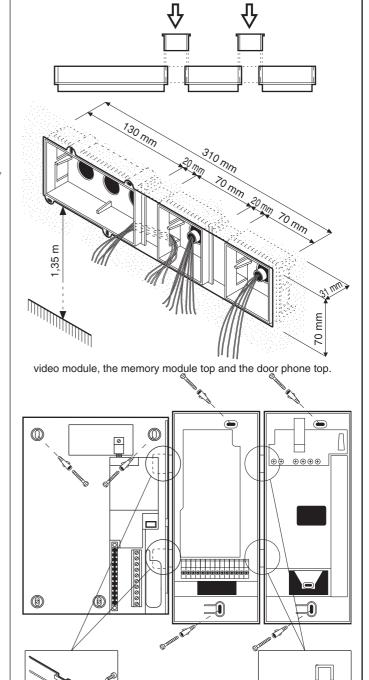
A possible configuration is:

- Video module + memory module + door phone.

VIDEO MODULE + PICTURE MEMORY MODULE + DOOR PHONE INSTALLATION

One large flush-mounting box Ref. 1032/51 (for the monitor) and two small boxes Ref. 1032/50 (for the picture memory and the door phone) are required.

- Join the flush-mounting box by means of the fairlead shims provided.
- Install the flush-mounting boxes at a height of 1.35 metres from the floor.
- Lead the video system wires from the central flush-mounting box and the door phone wires from the right-hand side.

Proceed as follows for fastening to the wall:

- Fit the two L-brackets for fitting the base of the memory module before fastening the monitor bracket to the wall.
- Fasten the monitor bracket, position and fasten the two lower sockets of the large flush-mounting box and fasten the top by means of the two bolts.
- Arrange the memory base on the two tabs and mark the positions of the two bolts for fastening to the wall.
- Before fastening the memory module, arrange the two U-brackets for fitting by the side of the door phone base.
- Mark the positions of the bolts for fastening the door phone base,
- Connect the various wires to the specific terminals; then fasten the video module, the memory module top and the door phone top.

ACCESSORY BOARD

The SCAITEL video module, in addition to the accessories illustrated in this section and in the “Apartment station accessories” section for Scaitel 1132 door phones can be equipped with the following devices illustrated in the “Apartment station accessories”.

- Socket and flush-mounting box for plug-in systems **Ref. 7063/4**
- 16-pin plug **Ref. 7063**

APARTMENT STATION ACCESSORIES

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APARTMENT STATION ACCESSORIES

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CHIME

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ELECTRONIC CHIME FOR ELECTRONIC CALL Ref. 9854/41 .... 3c 3
THREE-TONE ELECTRONIC CHIME Ref. 9854/42 .... 3c 3

ADDITIONAL ELECTRONIC BUZZER Ref. 9854/52 .... 3c 4

ADD-ON DEVICE FOR CALL AT FLOOR Ref. 9854/53 .... 3c 4

SOCKET & FLUSH-MOUNTING BOX FOR PLUG-IN SYSTEMS Ref. 7063/4 .... 3c 5

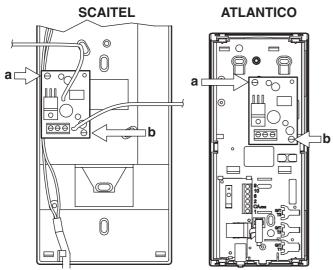
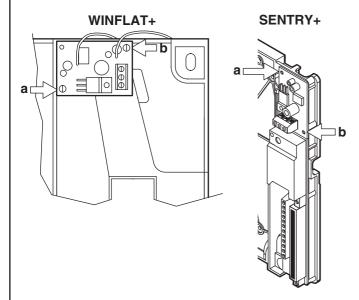
16-PIN PLUG Ref. 7063 .... 3c 5

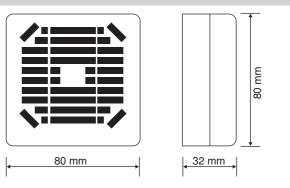
THREE-TONE GONG Ref. 1132/54

The Ref. 1132/54 device makes it possible to convert the normal call signal into a three-tone Gong to be sent to the loudspeaker of the house phone.
This device requires a power supply of 12 Vdc that can be provided by the extra power supply Ref. 1840/22. An extra wire must therefore be provided in the installation.
For insertion inside house phone proceed as follows:

- Screw the printed circuit to the base in the area indicated using the two screws **a** and **b** provided.
- Make the connections following the instructions given in the installation diagrams.

ELECTRICAL DATA

No-load absoption:	**5 µA**
During call:	**250 mA max**

NOTE: *The three-tone gong may be installed only in door phones and video door phones for "4+n" wire and coax wire installations shown in the figures above.*
Obviously, it cannot be installed if other devices occupy the installation position.

CHIME

OUTDOOR CHIME FOR ADDITIONAL CALL SOUND Ref. 9854/40

The chime Ref. 9854/40 can be used as additional ringer instead of the electronic buzzer Ref. 9854/52.
Its main features are:

- dimensions: 80 x 80 x 32 mm
- absorption: 35 mA with feeding at 12V a.c.
- operating voltage: 12V a.c. nominal, tolerance between 10V and 18V a.c.
- call sound: bitonal on loudspeaker, 1200 and 1800 Hz frequency.

ELECTRONIC CHIME FOR ELECTRONIC CALL Ref. 9854/41

The electronic chime Ref. 9854/41 can be used only with electronic call house phone/video house phone systems.
The chime can be connected directly in parallel to the indoor set call and needs neither a repetear relay nor feeding. One chime only can be connected in parallel to the indoor set.

THREE-TONE ELECTRONIC CHIME Ref. 9854/42

The three-tone electronic chime Ref. 9854/42 can be used in house phone/video house phone systems either with electronic or with traditional call. It can be used also in 1+1-wire house phone systems as well as in 5-wire video systems.
It does not need to be fed since it is supplied with a 9V non-rechargeable battery. During the call a three-tone note is generated in sequence; this note can be turned into one-tone or two-tone note by means of internal jumpers.

Instructions

Fit a 9V (MN1604/6LR61) battery in the ringer. The ringer is equipped with two jumpers indicated by W1 and W2. Remove one of the two jumpers for two-tone or one-tone operation as shown in the following table:

SOUND TYPE	JUMPERS		
	W1	W2	
THREE-TONE	X	X	Both jumpers inserted
TWO-TONE	X		Jumper W1 only; remove W2
ONE-TONE		X	Jumper W2 only; remove W1

ADDITIONAL ELECTRONIC BUZZER Ref. 9854/52

ADD-ON DEVICE FOR CALL AT FLOOR Ref. 9854/53

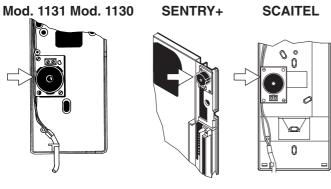
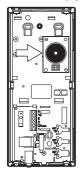
ADDITIONAL ELECTRONIC BUZZER Ref. 9854/52

Device Ref. 9854/52 can be used as an additional call device in the "4+n" wire systems and coax wire systems shown in the figure.

The electronic buzzer employs a self-oscillating piezoceramic membrane with the following characteristics:

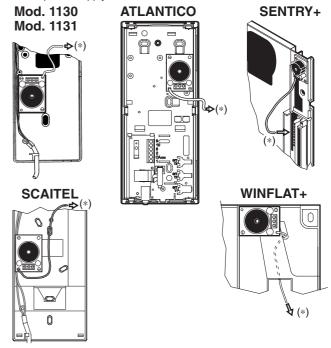
- frequency 1800-2000 Hz modulated on a frequency network half-wave;
- call voltage 12 Vac or 12 Vdc;
- uptake 15 mA;
- the device also works at 6-12 Vdc: in this case, connect + polarity to the corresponding terminal.

Follow the instructions below to install the buzzer Ref. 9854/52:

- fasten the printed circuit onto the base in the area shown using the two screws provided;
- make the connections as shown in the wiring diagrams in the box.

Important: *Fit a 47Ω3W resistor (provided) for relay switching in parallel to relay powered devices Ref. 788/1 and Ref. 788/8.*
Use ringer Ref. 9854/40 instead of buzzer Ref. 9854/52 if the installation position is used by other devices.

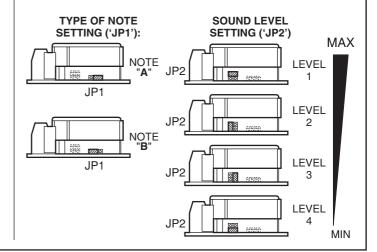
ADD-ON DEVICE FOR CALL AT FLOOR Ref. 9854/53

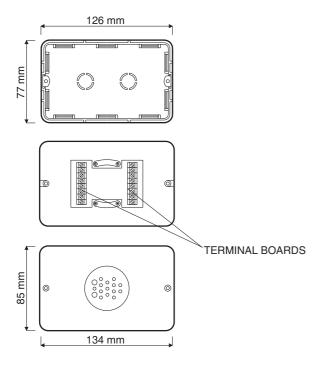
The call at fl oor function can be obtained powering the Ref. 9854/53 device with an ac or dc voltage.

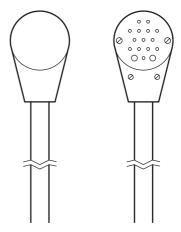
NOTE: *The AC power supply may cause buzzing on the conversation channel in particular in the case of systems over high distances. In this case, replace the AC power supply with a DC power supply.*

Connect the terminals as follows after fastening the device with the screws provided as shown in the figures above:

- CH Power positive from the door phone system
- CP+ / CP- Floor call button

(*) Additional floor call devices Ref. 9854/53 are provided with a connection wire which must be connected as shown in the table:

		Connect to terminal
Door phones	4+n systems	6
	1+1 systems	1
Video door phones	Coax cable systems	6
	5 wire systems	R1

SOCKET & FLUSH-MOUNTING BOX FOR PLUG-IN SYSTEMS Ref. 7063/4

Use of the tabletop mounted version with plug-in connections is recommended when the monitor needs to be moved from one position to another. Various sockets & flush-mounting boxes Ref. 7063/4 will need to be installed in the concerned points.
Simply connect the wires to the two terminal boards on the back of the socket.

16-PIN PLUG Ref. 7063

The monitor must be equipped with a 16-pin pole Ref. 7063 for connecting a tabletop mounted monitor to the system via a socket Ref. 7063/4; the monitor can then be plugged into the required 7063/4 socket.

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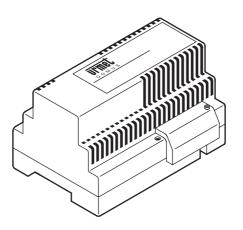
RELAY DEVICES
VARIOUS DEVICES

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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - PRODUCT TECHNICAL MANUAL

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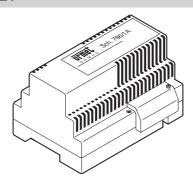
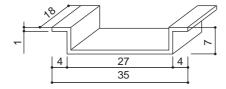
INTRODUCTION: POWER UNITS FOR DIN BAR ASSEMBLY

Urmet Domus power units are designed and constructed in compliance with CEI EN 60065:1994 (EN 60065: 1993) standards and with the essential requirements of the Low Voltage Directive 73/23/CEE, 93/68/CEE and Electromagnetic Compatibility Directive 89/336, for electronic devices connected to a network for domestic and general use.
Dual class 2 isolation protection is employed. The device all carry IMQ marking.
These power supplies have been constructed according to market requirements that tend towards centralization of electrical equipment in specific cabinets.

The power units can be used to power door phone and video door phone systems with traditional door phones, i.e. with call to buzzer, and electronic call door phones. These door phones are equipped with a tone generating circuit for sending the call to the door phone speaker (models 1131, 1132 Scaitel and 1133 Atlantico).
The protections against overloads and short circuits are not made with traditional filament fuses but with self-reset electronic fuses (PTC). In case of short circuits or overloads, the protection circuit (PTC) is activated and the power supply is protected also during pemanent short circuits.
To reset the power supply, resolve the reason of the short circuit and disconnect the feeding from the mains for at least one minute .

The power units are designed and constructed to work in the following environmental conditions:
Working ambient temperature range: - 5°C + 45°C.
Maximum humidity: 90% RH at 30°C

Electrical connections are made using screw-on terminal board.
The maximum cross-section area of the wires to be connected to the terminal boards is 1.5 mm^2.

INSTALLATION

Urmet Domus power units, relays and transformers listed in the table below must be fitted on DIN 46277 compliant bars of the following dimensions (in mm):

Products for DIN bar assembly are measured in terms of “modules”; one module corresponds to 18 mm in accordance with DIN 43880 standards.

DEVICE	Ref.	Nr. DIN modules
Door phone system power units		
28VA door phone power unit	786/1A	7
28VA door phone power unit powered at 110-230Vac	786/14A	7
38VA door phone power unit	786/38A	7
28VA door phone power unit with relay	786/5A	10
Power unit for 1-wire switchboard	786/3A	7
28VA door phone power unit with boosted note generator	786/4	7
Power unit for intercom systems	8500A	9
Video door phone system power units		
38VA video power unit	789/5B	10
38VA 110-230Vca video power unit	789/6B	10
Video power unit for 1 additional monitor	789/2	7
Video power unit for 3 additional monitors	789/3	7
110-230Vca video power unit for 3 additional monitors	789/4	7
50VA video power unit	789/1A	10 + 10
Video distributor power unit	1840/22	4
Transformers		
230V safety transformer	9000/230	3
110V safety transformer	9000/110	3
Tone generator		
Tone generator for door phones in 4+n wire systems	787/1	4
Tone generator for door phones in 1+1 wire systems	787/2	4
Relay devices		
Relay device for automatic switching 2 panels	788/1	9
Relay device for automatic switching 4 video door units	788/4	13
Relay device for automatic switching max. 4 panels	788/8	12
Call repeater relay	788/21	4
Additional lamp power relay	788/5	4
Switching relay device	788/30	4
Device with impedance for intercom systems	789/51	2
Miscellaneous		
Electrical lock timer	1032/81	4
Secondary camera voltage adapter	1840/44	2
Power line protection device	1332/85	2
Power line filter	1332/86	2
Power line protection device	1332/80	2

Note that the devices can be wall-mounted using two bolts (not provided).
Side protections of the terminal board may be used for wall-mounted assembly; they can be eliminated for bar-mounted installations (in distribution panels).

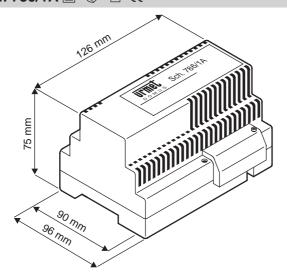
INTERCHANGEABLE DEVICES

Some device replace previous models and may be used as spare parts. The correspondence between versions is:

Previous power unit models			**New model**
	9006/1	→	786/1A
	9006/14	→	786/14A
	9008/14	→	786/38A
	9006/5	→	786/5A
	9006/3	→	786/3A
	787/4	→	786/4
	7073	→	789/1A
	7073/1	→	789/1A
	7073/2	→	789/1A
Relay devices	9332/1	→	788/1
	9330	→	788/30
	9330/5	→	788/5
	4520/10	→	788/21
	4340/11	→	788/21
	788/11	→	788/21

POWER SUPPLY FOR HOUSE PHONE SYSTEM Ref. 786/1A

DUAL POWER DOOR PHONE POWER UNIT Ref. 786/14A

POWER SUPPLY FOR HOUSE PHONE SYSTEM Ref. 786/1A

The basic power supply Ref. 786/1A is used to power the normal house phone system with loudspeaking unit and/or intercom. In addition to energizing the electric lock, the 12 Vac output voltage can be used the power a maximum of two 3W - 14Volt bulbs to illuminate the push button panel. With several bulbs, an adequately rated transformer must be used.

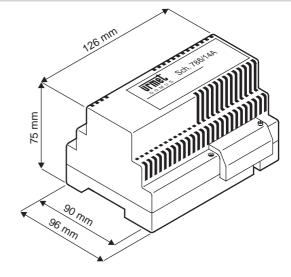
ELECTRICAL CHARACTERISTICS

Power supply:	**230 Vac**
	50/60 Hz
Power:	**28 VA**
Secondaries:	**6 Vdc = 0,11 A**
	12Vca = 1,2A
	-J 6Vcc = 0,11A
Tone generator output:	
Two-tone	**F1 = 1200 Hz ±20%**
	F2 = 750 Hz ±20%
	Fsweep = 12 Hz ±20%
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**4,2 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

DUAL POWER DOOR PHONE POWER UNIT Ref. 786/14A

The Ref. 786/14A power supply has the same characteristics as the Ref. 786/1A type, with the difference that it also envisages a 110 V power supply as well as a secondary output voltage of 18 Vac.

ELECTRICAL CHARACTERISTICS

Power supply:	**110/230 Vac**
	50/60 Hz
Power:	**28 VA**
Secondaries:	**6 Vdc = 0,11 A**
	12 Vac = 0,9A
	18 Vac = 0,3A
	-J 6Vcc = 0,11A
Tone generator output:	
Two-tone	**F1 = 1200 Hz ±20%**
	F2 = 750 Hz ±20%
	Fsweep = 12 Hz ±20%
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**4,2 W**

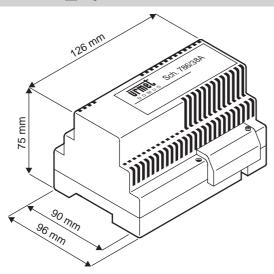
(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

POWER SUPPLY FOR HOUSE PHONE SYSTEM Ref. 786/38A

POWER UNIT WITH RELAY Ref. 786/5A

POWER SUPPLY FOR HOUSE PHONE SYSTEM Ref. 786/38A ▢ Ⓜ CE

The Ref. 786/38A power supply has the same characteristics as the Ref. 786/14A type, with the difference that the transformer power is 38VA instead of 28VA.

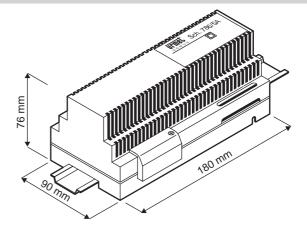
ELECTRICAL CHARACTERISTICS

Power supply: **110/230 Vac**
50/60 Hz
Power: **38 VA**
Secondaries: **6 Vdc = 0,11 A**
12 Vac = 1,1A
18 Vac = 0,5A
-J 6Vcc = 0,11A
Tone generator output:
Two-tone **F1 = 1200 Hz ±20%**
F2 = 750 Hz ±20%
Fsweep = 12 Hz ±20%
Protection: **With PTC (*)**
Dissipated power after 1 average working hour: **5,7 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

Lenght: 126 mm (7 DIN 18 mm modules)
Width: 96 mm
Height: 75 mm

POWER UNIT WITH RELAY Ref. 786/5A ▢ Ⓜ CE

The Ref. 786/5A power supply has a built-in relay for automatic switching of the service in special loudspeaking unit/intercom installations.
The Ref. 786/5A power supply replaces the previous Ref. 9006/5.
When used a spare part, terminal correspondence is as follows:

Ref. 9006/5	Ref. 786/5A	
1	1	
2	2	
6	6	
1P	1P	
2P	2P	
– 6	–	
+ 6	+	
SN1	SN1	
SN2	SN2	
~ 12	~ 12	
	C1	} jumper
~ 0	~ 0	
	C2	
#	– P	} jumper
#	– J	

Note#: *Terminals not Present.*

ELECTRICAL CHARACTERISTICS

Power supply: **110/230 Vac**
50/60 Hz
Power: **28 VA**
Secondaries: **6 V cc = 0,2 A**
12 Vac = 0,9A
18 Vac = 0,3A
-J 6Vcc = 0,2A
Tone generator output:
Two-tone **F1 = 1200 Hz ±20%**
F2 = 750 Hz ±20%
Fsweep = 12 Hz ±20%
Protection: **With PTC (*)**
Dissipated power after 1 average working hour: **4,2 W**

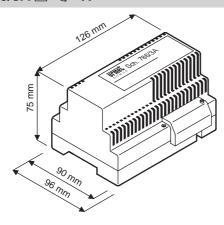
(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

Lenght: 180 mm (10 DIN 18 mm modules)
Width: 96 mm
Height: 75 mm

POWER UNIT FOR 1-WIRE SWITCHBOARD Ref. 786/3A

POWER UNIT WITH BOOSTED NOTE GENERATOR Ref. 786/4

POWER UNIT FOR 1-WIRE SWITCHBOARD Ref. 786/3A

The Ref. 786/3A power supply unit is used only to power installations with electromechanical house phone switchboard of the Mod. 604-605-606 series. It does not have the tone generator output as, in these installations, only Mod. 1130 house phones of the System with conventional call with buzzer are used.

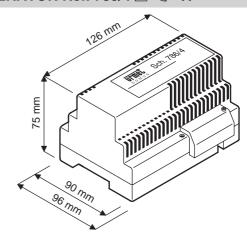
ELECTRICAL CHARACTERISTICS

Power supply:	**230 Vac**
	50/60 Hz
Power:	**28 VA**
Secondaries:	**15 Vdc = 0,2A**
	12Vca = 1,3A
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**4,2 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

POWER UNIT WITH BOOSTED NOTE GENERATOR Ref. 786/4

This power unit replaces the integrated additional call device Ref. 787/4.

The device, powered directly from the mains and bearing the EC and IMQ marks has been designed to perform the following functions in house phone and video house phones systems.

- PS output: generation of the call tone for a maximum of 4 house phones (4+n type) with electronic short-circuit protection.
- PS1 output: generation of the call tone for a maximum of 4 house phones (1+1 type) with electronic short-circuit protection.
- SN output: activates any video power supply unit following a call on outputs PS or PS1.
- 12Vac output for alternative calls (without activation on SN) with short-circuit protection.
- 6Vdc output for separate powering of any loudspeaking unit with electronic short-circuit protection.
- -J output for intercom systems (referred to the 6Vdc output) with electronic short-circuit protection.
- Max. 2A capacity relay output with NO contacts closed during a call on PS or PS1 but not on 12Vac call.

Note: *The emission level of the call tone applied to each individual house phone is constant as the house phones in parallel vary and corresponds to the level currently applied on single house phones.*

ELECTRICAL CHARACTERISTICS

Power supply:	**110/230 Vac**
	50/60 Hz
Power:	**28 VA max.**
	Output +6/-6: 6 Vdc = 0,11A
	Output PS: F1: 1230 Hz ± 20%
	F2: 760 Hz ± 20%
	Sweep:12 Hz ± 10%
	exit: +10 Vpp ± 10% 45Ω Short-circuit protection
	45Ω x 4 parallel Short-circuit protection
Output PS1:	**F1: 1230 Hz ± 20%**
	F2: 760 Hz ± 20%
	Sweep:12 Hz ± 10%
	exit: -10 Vpp ± 10% 45Ω Short-circuit protection
	45Ω x 4 parallel Short-circuit protection
Output ~12/~0:	**12 Vac ± 10% 800 mA max**

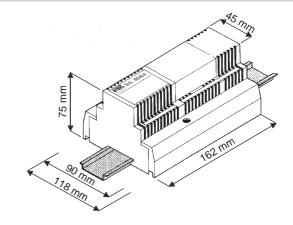
NO/C/NC output relay:	
Maximum switching voltage:	**30 V**
Maximum switching current:	**2 A**
Peak switching load:	**18 VA**
Protection:	**With PTC (*)**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

Note: *The loads indicated for different types of generated calls (PS, PS1, ~12) are reciprocally alternative can calculated on a maximum time of 1 minute.*
The performance of the power unit for door unit or for intercom systems (terminals +6, -6, -J) is alternative.

DIMENSIONS

Lenght: 126 mm (7 DIN 18 mm modules))
Width: 96 mm
Height: 75 mm

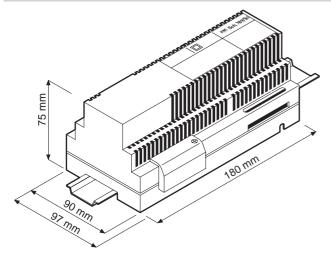
POWER UNIT FOR INTERCOM SYSTEMS Ref. 8500A

The 8500A power unit is used in intercom and centralised systems. This device can be either powered at main voltage or 110Vac.

ELECTRICAL CHARACTERISTICS

Power supply:	**110/230 Vac**
	50/60 Hz
Power:	**28 VA**
Output:	**12 Vdc = 0,6 A**
Protection:	**with fuse T 1,6A**

DIMENSIONS

Lenght: 162 mm (9 DIN 18 mm modules))
Width: 118 mm
Height: 75 mm

VIDEO POWER SUPPLY Ref. 789/5B

The power supply Ref. 789/5B can only be used in video systems with electronic call, i.e. with Sentry+, Winflat+, Winspot+ and Scaitel monitors and house phones Mod. 1131, Mod. 1132 Scaitel and Mod. 1133 Atlantico.
It can be used in 5 wire systems without coax cable, too.
The video door phone power unit Ref. 789/5B was designed in compliance with safety standards CEI 12/13 and 64/8; it carries IMQ marking.
The housing may be used both in DIN bar mounting and wall mounting by means of screws and spacers; please take care of mounting it in dry and repaired environments.
Power units Ref. 789/1A must be used in systems powered at 110 and 240 V.
The power supply is supplied with the timer which is adjusted on 50"; if you wish to change this time, please use the special control for changing from 45" to 180".
The "PS" call output can be used to control up to four speakers (video door phones or door phones in a coax system) in parallel.
The power unit Ref. 789/5B can power up only one Sentry+ video door phone or two Winflat+, Winspot+ or Scaitel video door phones. Use supplementary power units Ref. 789/2 or Ref. 789/3 according to the following table to obtain the same performance with Sentry+ monitors or to connect more than one monitor in parallel:

Video door phone model	Power unit	
	789/2	**789/3**
Winflat+, Winspot+ or Scaitel (after the second video door phone)	Max 1 monitor	Max 3 monitors
Sentry+ (after the first video door phone)	Max 1 monitor	Max 2 monitors

TECHNICAL FEATURES

Power supply: **230 V ca +/- 10% 50/60 Hz**
Power: **38 VA**
No timed supplies: **12 V ca 0,4 A**
2 A (lock)
+ R 0,11A
6 V 0,18A
Timed supplies: **R2 0,65 A**
+TC 0,23 A
Timer: **45" - 180"**
(adjusted 50" +/- 10 %)
Door opener: **relay 5 A**
description of terminals **SE1 Normally Open**
SE2 Common
SE3 Normally Closed
PS output: call tone generation for up to four speakers (video door phone or door phones in coax systems) with electronic short-circuit protection.
Protection: **PTC (*)**
Weight: **1030 g**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60" to reset.

DIMENSIONS

Lenght: 180 mm (10 DIN 18 mm modules)
Width: 97 mm
Height: 75 mm

VIDEO POWER SUPPLY Ref. 789/5

The Ref. 789/5 power supply have the same characteristics as the Ref. 789/5B model; the only difference concerns the number of speakers controlled.
The "PS" call output can be used to control up to two speakers in parallel.

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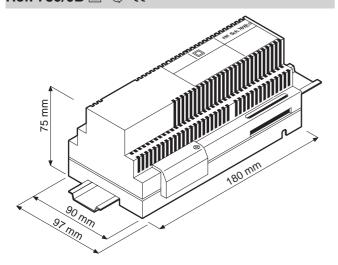
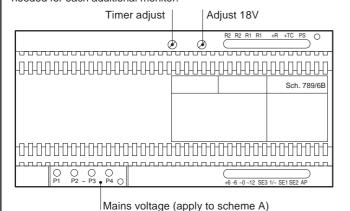
VIDEO POWER SUPPLY 110/230 Vac Ref. 789/6B

VIDEO POWER SUPPLY 110/230 Vac Ref. 789/6

VIDEO POWER SUPPLY 110/230 Vac Ref. 789/6B

Power supply Ref. 789/6B can only be used in video phone devices with an electronic call system, that is to say with Sentry+, Winflat+, Winspot+ and Scaitel monitors and house phones Ref. 1131, Ref. 1132 Scaitel and Ref. 1133 Atlantico.
It can also be used in 5 wires systems without coax cable.
The container is suitable for both DIN rail mounting and wall mounting with screws and dowels and it must be installed in dry and protected environments.
The device is foreseen for 110 Vac mains feeding.
If used with 230 Vac mains feeding, connecting boards links must be respected as per Scheme A.
The power supply is supplied with a timer fixed at 50"; if needed, it can be changed by means of a control which allow a change from 45" to 180".
The "PS" call output can be used to control up to four speakers (video door phones or door phones in a coax system) in parallel.

Power supply 789/6B can feed one video phone only; in case of 2 or more monitors working together, a supplementary power supply is needed for each additional monitor.

SCHEME A

P1 P2 P3 P4
0 ~ 230

P1 P2 P3 P4
0 ~ 110

TECHNICAL FEATURES

Power supply:	**230 V ca +/- 10% 50/60 Hz**
Power:	**38 VA**
No timed supplies:	**12 V ca 0,4 A**
	2 A (lock)
	+ R 0,11A
	6 V 0,18A
Timed supplies:	**R2 0,65 A**
	+TC 0,23 A
Timer:	**45" - 180"**
	(adjusted 50" +/- 10 %)
Door opener:	**relay 5 A**
description of terminals	**SE1 Normally Open**
	SE2 Common
	SE3 Normally Closed
PS output	**: call tone generation for up to four speakers (video door phone or door phones in coax systems) with electronic short-circuit protection.**
Protection:	**with PTC (*)**
Weight:	**1030 g**

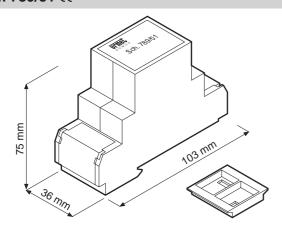
(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60" to reset.

DIMENSIONS

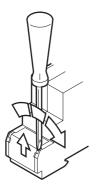
Lenght:	180 mm (10 DIN 18 mm modules))
Width:	97 mm
Height:	75 mm

VIDEO POWER SUPPLY 110/230 Vac Ref. 789/6

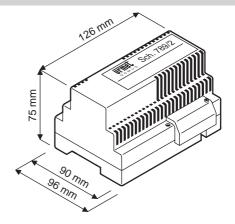
The Ref. 789/6 power supply have the same characteristics as the Ref. 789/6B model; the only difference concerns the number of speakers controlled.
The "PS" call output can be used to control up to two speakers in parallel.

DEVICE WITH IMPEDANCEFOR INTERCOM Ref. 789/51 CE

In systems with a video power supply Ref. 789/5B, the device Ref. 789/51 permits to have the intercom service with automatic switching with the video outdoor station.

The connections are made using screw type terminal strips.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.
The casing is made of self-extinguishing ABS plastic.

The device can be wall mounted, by means of the bracket supplied with, or installed on a DIN bar. To reach the connection terminals, lever as shown in the picture.

DIMENSIONS

Lenght: 36 mm (2 DIN 18 mm modules)
Width: 103 mm
Height: 75 mm

VIDEO POWER SUPPLY FOR ADDITIONAL MONITOR Ref. 789/2 ☐ CE

The video power supply Ref. 789/2 is used to power an additional monitor in parallel to the main monitor.
It may be used in installations with coax cable systems as well as in installations with 5 wires (without coax cable).

ELECTRICAL CHARACTERISTICS

Supply voltage:	**230 V ca ± 10% 50/60 Hz**
Power:	**28 VA**
Outputs:	**R2 out 0,65 A int.**
	RL 0,02 A
	V2 0,02 A
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**4,2 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60" to reset.

APPEARANCE AND DIMENSIONS

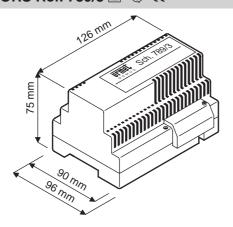
The power unit may be fitted on DIN bar or on wall with two bolts.
Connections are made using screw terminal board.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght: 126 mm (7 DIN 18 mm modules)
Width: 96 mm
Height: 75 mm

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS Ref. 789/3

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS Ref. 789/4

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS Ref. 789/3 ☐ CE

The video power supply Ref. 789/3 is used to power either 2 additional Mod. Sentry+ monitors or 3 additional Mod. Winflat+, Winspot+ or Scaitel monitors in parallel to the main monitor.

ELECTRICAL CHARACTERISTICS

Supply voltage:	**230 V ca ± 10% 50/60 Hz**
Power:	**38 VA**
Outputs:	**R2 out 1,35 A int.**
	RL 0,02 A
	V2 0,02 A
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**5,7 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

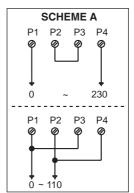
APPEARANCE AND DIMENSIONS

The power unit may be fitted on DIN bar or on wall with two bolts.
Connections are made using screw terminal board.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS Ref. 789/4 ☐

The video power supply Ref. 789/4 is used to power either 2 additional Mod. Sentry+ monitors or 3 additional Mod. Winflat+, Winspot+ or Scaitel monitors in parallel to the main monitor.
It may be used in installations with coax cable systems as well as in installations with 5 wires (without coax cable).
The device is foreseen for 110 Vac mains feeding.
If used with 230 Vac mains feeding, connecting boards links must be respected as per Scheme A.

ELECTRICAL CHARACTERISTICS

Supply voltage:	**110/230 V ca ± 10% 50/60 Hz**
Power:	**38 VA**
Outputs:	**R2 out 1,35 A int.**
	RL 0,02 A
	V2 0,02 A
Protection:	**With PTC (*)**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

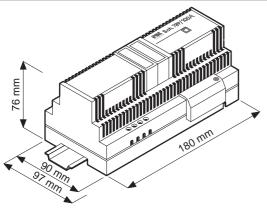
APPEARANCE AND DIMENSIONS

The power unit may be fitted on DIN bar or on wall with two bolts.
Connections are made using screw terminal board.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

VIDEO POWER SUPPLY 50VA Ref. 789/1A

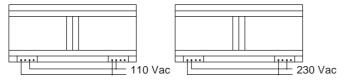
VIDEO POWER SUPPLY 50VA Ref. 789/1A

Power unit Ref. 789/1A may be used in electronic call systems and traditional call systems.
These power units comply with CEI 12/13 5th edition - Dec. 1988 safety standing implementing European CENELEC HD 195 S6 standards.
The video power unit Ref. 789/1A (110/230 V) consists of two units which may be connected using the specific wire and plugs:

- The power unit is called 789/101 (110/230 V).
- The electronic unit is called 789/102.

Both units can be fitted on a DIN bar (10 modules per unit) or on a wall by means of screws.
The power unit must be fitted in a dry, sheltered place preferably inside an electrical panel.

Replaces previous power units Ref. 7073, 7073/1, 7073/2 in all systems except for:

- Systems with Vidicon camera: 789 power units are not provided with + LA-LA outputs for powering lamps.
- Continuously powered systems.
- Systems with 20 monitors in stand-by (789/1A power units can pre-power up to 2 monitors).
- Systems with simultaneous operation of 2 or more monitors: in this case, power the additional monitors with a local power unit Ref. 789/2 (for one additional monitor) or Ref. 789/3 (for two additional Sentry+ monitors or three additional Winflat+, Winspot+ or Scaitel monitors).

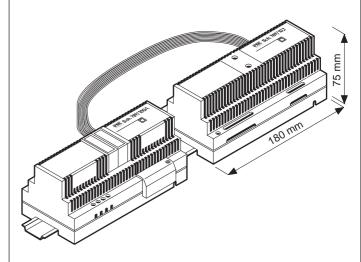
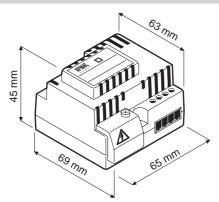
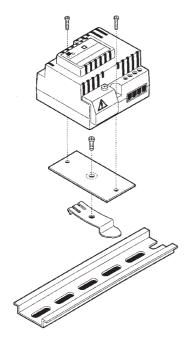
Connect both transformers to the network voltage with the two-voltage power unit Ref. 789/1A.

TECHNICAL FEATURES

Power supply:	**110/230 V ca 50/60 Hz**
Power:	**50 VA**
No timed supplies:	**12 V ca**
	1 A (fuse T2A)
	2 A int. (lock)
	6 V 0,2 A (fuse T 0,315A)
	-J cc 0,1 A (fuse T 0,315A)
Timed supplies:	**18 Vdc**
	0,85 A (fuse T2A)
	16 Vdc 0,23 A (fuse T2A)
Timer:	**45” - 150” (adjusted 50” ÷ 10 %)**
Door opener:	**relay 5 A**
Protection:	**with fuse**
Weight:	**1770 g power supply module**
	385 g electronic module
Dissipated power after 1 average working hour:	**7,5 W**

DEVICE DIAGRAMS

Video power supply 50 VA, 110/230 V	**Ref. 789/101**
Electronic unit	**Ref. 789/102**
Connection cable	**Ref. 789/103**

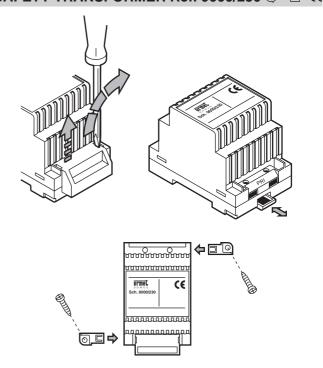
DIMENSIONS (SINGLE DEVICES)

Lenght:	180 mm (10 DIN 18 mm modules)
Width:	90 mm
Height:	76 mm

DISTRIBUTOR POWER UNIT Ref. 1840/22

Ref. 1840/22 power units are used to power up to 4 video distributors Ref. 1794/4 at 12 Vdc.
The connections are made using screw type terminal strips. The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.
The casing is made of self-extinguishing ABS plastic.
The power unit and circuit breaker may be fitted on DIN bar or on wall with two bolts.

ELECTRICAL CHARACTERISTICS

Power supply:	**230 Vac ±10% 50/60 Hz**
Power:	**5 VA**
Secondaries:	**12 Vdc ±5% 0,15 A**
	24 Vac ±5% 0,20 A
Protection:	**Con PTC**
Dissipated power after 1 average working hour:	**0,5 W**

DIMENSIONS

Lenght: 65 mm (4 DIN 18 mm modules)
Width: 69 mm
Height: 45 mm

SAFETY TRANSFORMER Ref. 9000/230

The transformer can be used to power up to 5 bulbs per panel.
The Ref. 9000/230 URMET DOMUS transformer is suitable for DIN bar fitting, the device was designed and made in compliance with the laws in force concerning isolation and safety transformers being protected from direct and indirect contact as required by the electrical system standards in force. It carries IMQ marking and respective certifications.

ELECTRICAL CHARACTERISTICS

Power supply:	**230 Vac**
	50/60 Hz
Power:	**18 VA**
Secondary:	**12 Vac**
Peak load:	**1,1A**
Protection:	**With PTC (*)**
Dissipated power after 1 average working hour:	**1,8 W**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

DIMENSIONS

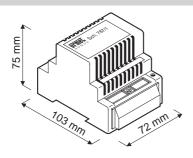
Lenght: 54 mm (3 DIN 18 mm modules)
Width: 83 mm
Height: 64 mm

SAFETY TRANSFORMER Ref. 9000/110

The Ref. 9000/110 safety transformers have the same characteristics as the Ref. 9000/230 model; the only difference concerns the power voltage (110 Vac instead of 230 Vac).

"4+N" DOOR PHONE TONE GENERATOR Ref. 787/1

"1+1" DOOR PHONE TONE GENERATOR "1+1" Ref. 787/2

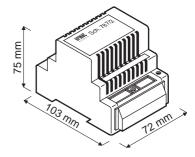
"4+N" DOOR PHONE TONE GENERATOR Ref. 787/1 CE

The tone generator Ref. 787/1 is used as a auxiliary call device in electronic call 4+n wire door phone and coax video door phone systems.
The device acts as a primary call generator when used with 786 door phone system power units or 789 video door phone system power units.

ELECTRICAL CHARACTERISTICS

Power voltage: **12 Vac ±20%**
Intake: **110 mA with 12 Vac**
Call tone: **F1 - 500Hz, F2 - 800Hz ±20%**
Sweep rate 10-12Hz

DIMENSIONS

Lenght: 72 mm (4 DIN 18 mm modules)
Width: 103 mm
Height: 75 mm

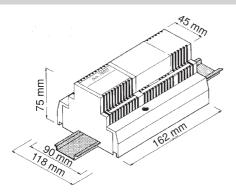
"1+1" DOOR PHONE TONE GENERATOR Ref. 787/2 CE

The Ref. 787/2 tone generator is used in 5-wire video door phone systems and 1+1 wire door phone systems as additional floor call device. Floor calls are not possible with the handset off-hook.

ELECTRICAL CHARACTERISTICS

Intake: **200 mA con 12 Vac**
Power voltage: **12 Vac ± 20%**
Call tone: **Two-tone F1 = 820 Hz,**
F2 = 500 Hz ± 20%
with sweep rate of 10 ÷12Hz.

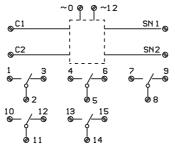
DIMENSIONS

Lenght: 72 mm (4 DIN 18 mm modules)
Width: 103 mm
Height: 75 mm

RELAY DEVICE FOR AUTOMATIC SWITCHING ON 2 PUSH BUTTON PANELS Ref. 788/1 CE

The Ref. 788/1 relay device makes it possible to connect a group of house phones to two push button panels.
The relay device must always be powered at a voltage of 12 Vac.
Contacts can switch the currents shown in the following table:

Contacts between terminals	Max. current
1-2-3	2 A
4-5-6	1 A
7-8-9	5 A
10-11-12	1 A
13-14-15	2 A

The relay can be energised by powering terminals C1/SN1 or C2/SN2. The position of the contacts shown in the following figure corresponds to non-energised relay state or energised state via sensor C2/SN2.

Ref. 788/1 relay device can be fitted on DIN bar or on wall with two bolts.

The container is made of ABS.
The connections are made using screw type terminal strips.
The maximum cross section of the wires accepted by the terminal strips is 1,5 mm².

The Ref. 788/1 relay device replaces the Ref. 9332/1 relays in the applications.
Correspondence between the terminals is as follows:

Ref. 9332/1	Ref. 788/1
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
SN1	SN1
SN2	SN2
SN ♦{	C1
	C2
	~12
*	~0

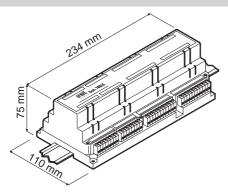
Note♦: *Jumper terminals C1, C2, ~12 of relay 788/1 and connect to ~12.*
Note*: *Terminal not present on Ref. 9332/1; with 788/1 add power wire ~0.*

DIMENSIONS

Lenght:	162 mm (9 DIN 18 mm modules)
Width:	118 mm
Height:	75 mm

RELAY BOX FOR AUTOMATIC SWITCHING OF 4 VIDEO STATIONS Ref. 788/4

RELAY BOX FOR AUTOMATIC SWITCHING OF MAX 4 PUSH BUTTON PANELS Ref. 788/8

RELAY BOX FOR AUTOMATIC SWITCHING OF 4 VIDEO STATIONS Ref. 788/4 CE

The Ref. 788/4 relay device can be used in various system solutions, e.g.:

- 4 coax automatically switching video door phones (up to 7 video door phones can be installed with a second device connected in a cascade).
- intercom coax video door phones answering 2 or 3 automatically switching video door phones.

The device must always be powered at 12 V ca.

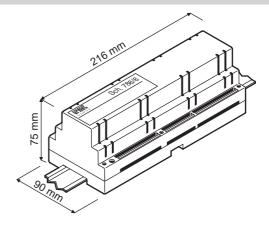
The device can be DIN bar fitted or wall fitted using screws and bolts.

The casing is made of ABS plastic.

The connections are made using screw type terminal strips.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght:	234 mm (13 DIN 18 mm modules)
Width:	110 mm
Height:	75 mm

RELAY BOX FOR AUTOMATIC SWITCHING OF MAX 4 PUSH BUTTON PANELS Ref. 788/8 CE

Ref. 788/8 relay device is used to connect one or more door phone groups to up to 4 electronic call or traditional call 4+n wire door units.
The switching are automatic and they are carried out during the call by pressing a key.
During this phase all the house phone column is switched on the push button panel from which the call has been effected, excluding the other push button panels from the service.
It can be mounted on DIN 46277 bars or to the wall by means of two screws and nogs.
The container is made of ABS.
The relay box Ref. 788/8 replaces (in the applications) the Ref. 9332/8 one. For use as spare parts of the relay box Ref. 9332/8, follow the correspondence indicated in the table:

Ref. 9332/8	Ref. 788/8
1	1
2	2
–	–
AP	AP
1^{I}	1^{I}
2^{I}	2^{I}
$-^{I}$	$-^{I}$
AP^{I}	AP^{I}
1^{II}	1^{II}
2^{II}	2^{II}
$-^{II}$	$-^{II}$
AP^{II}	AP^{II}
1^{III}	1^{III}
2^{III}	2^{III}
$-^{III}$	$-^{III}$
AP^{III}	AP^{III}
1^{IV}	1^{IV}
2^{IV}	2^{IV}
$-^{IV}$	$-^{IV}$
AP^{IV}	AP^{IV}
SN1	SN1
SN2	SN2
SN3	SN3
SN4	SN4
A	~0
B	~12 / C1 / C2 } jumper

DIMENSIONS

Lenght:	216 mm (12 DIN 18 mm modules)
Width:	90 mm
Height:	75 mm

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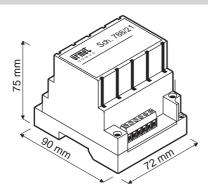
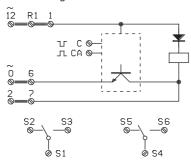
CALL REPEATER RELAY Ref. 788/21

ADDITIONAL LAMP POWER RELAY Ref. 788/5

CALL REPEATER RELAY Ref. 788/21 CE

The Ref. 788/21 relay is used as call repeater.
It is designed for use in both electronic and conventional call systems (both house phone and video house phone) as well as in Nohands, 1+1 and 5 wire video systems.
The relay is equipped with two exchange contacts able to drive circuits with voltages not exceeding 24 V and maximum currents of 5A.

The device must always be powered at 12Vac between the terminals ~0 and ~12. Terminal C must be used to energise the relay in 1+1 wire door phone systems, 5-wire video door phone system and traditional call systems.

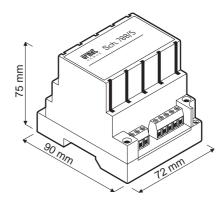
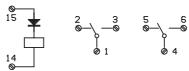
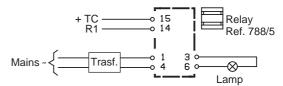
The CA terminal must be used to control the relay in 4+n door phone and coax wire video door phone systems.

It can be installed on a DIN bar or wall surface mounted using 2 screws and nogs.
The container is made of ABS.

Relay Ref. 788/21 replaces relays Ref. 4520/10, 4340/11 and 788/11 providing the same functions.

DIMENSIONS

Lenght: 72 mm (4 DIN 18 mm modules)
Width: 90 mm
Height: 75 mm

ADDITIONAL LAMP POWER RELAY Ref. 788/5 CE

The Ref. 788/5 replaces 9332/5 and can be used as control system for powering additional outdoor lamps (specifically with separate cameras and panels).

The relay is normally connected to wires +TC -R1 (18Vdc) of the camera; when powered following a call, the relay closes the contacts which control the outdoor lamp circuit (separately powered).

The device must be installed in a protective casing when it is used to power voltage exceeding 24V to meet safety regulations.

It can be installed on a DIN bar or wall surface mounted using 2 screws and nogs.

The container is made of ABS.

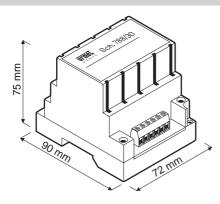
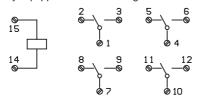
The connections are made using screw type terminal strips.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght: 72 mm (4 DIN 18 mm modules)
Width: 90 mm
Height: 75 mm

SWITCHING RELAY DEVICE Ref. 788/30

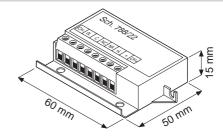
MINIATURE CALL REPEATER AUXILIARY RELAY Ref. 788/22

SWITCHING RELAY DEVICE Ref. 788/30 CE

The Ref. 788/30 relay device replaces the Ref. 9330 relay and consists of a 12 Vac relay equipped with 4 exchange contacts.

It can be installed on a DIN bar or wall surface mounted using 2 screws and nogs.

The container is made of ABS.
The connections are made using screw type terminal strips.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght:	72 mm (4 DIN 18 mm modules)
Width:	90 mm
Height:	75 mm

MINIATURE CALL REPEATER AUXILIARY RELAY Ref. 788/22 CE

Device Ref.788/22 can be used for the call repeat function in the following types of systems:

- 4+n house phone system with electronic call
- 4+n house phone system with traditional call
- 1+1 house phone system with electronic call
- 1+1 house phone system with traditional call
- Coax video house phone system with electronic call
- Coax video house phone system with traditional call
- 5 wire video house phone system with electronic call
- 5 wire video house phone system with traditional call

In all other types of systems,simply connect the call signal.In this case,the device will close the relay contact,repeating the call pattern in time. In all cases,the device can be connected separately (i.e.not in parallel to the house phones/video house phones).

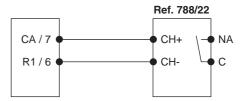
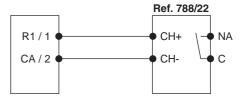
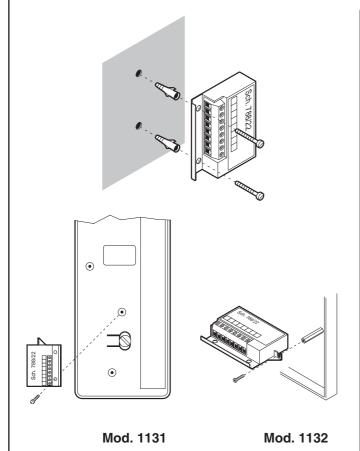
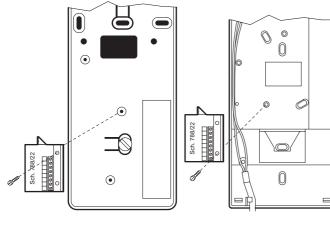
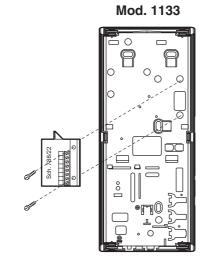
Output contacts for resistive load switchover up to 1A -24 V.
The device can be fastened to the wall or to other devices by means of the two holes on the casing tables (screws not provided).

WIRING DIAGRAMS

4+n house phone system with electronic call
4+n house phone system with traditional call
Coax video house phone system with electronic call
Coax video house phone system with traditional call

1+1 house phone system with electronic call
1+1 house phone system with traditional call
5 wire video house phone system with electronic call
5 wire video house phone system with traditional call

Mod. 1131 Mod. 1132

Mod. 1133

VIDEO SWITCH 4 IN -1 OUT Ref. 1038/69 CE

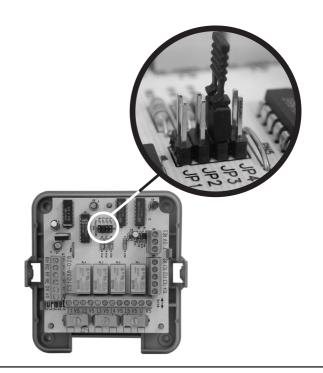
The Ref. 1038/69 video switch is used to switch up to 4 coax video inputs on a single cyclic output.
The user can cyclically switch the signal received from the monitor to a camera connected to the device (up to 4) by pressing a button.

TECHNICAL FEATURES

Power voltage(+V, 0V): **16÷25 Vdc**
Intake in terms of unitary loads: **1 CU**
Maximum distance between button contacts and terminals (T, RES, 0V): **300m**
Working temperature range: **-5 ÷+50 °C**
Humidity: **90%UR a 30 °C**

Set the jumper on the device to the position shown in the table according to the number of cameras used:

Nr. of cameras	JP1	JP2	JP3	FUNCTION
2	ON	--	--	Video signal switch I1 ÷ I2
3	--	ON	--	Video signal switch I1 ÷ I2 ÷ I3
4	--	--	ON(*)	Video signal switch I1 ÷ I2 ÷ I3 ÷ I4

(*) Factory presetting

VIDEO DISTRIBUTOR Ref. 1794/4

DESCRIPTION OF TERMINALS

Terminal	Description
RH	(Not used)
RG	(Not used)
RF	(Not used)
RE	(Not used)
0V	Power input (ground)
+V	Device power input (positive) (+18Vdc)

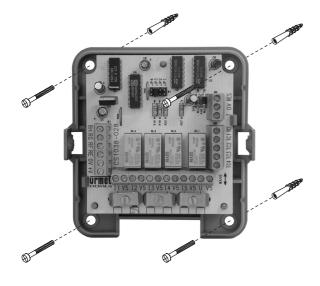
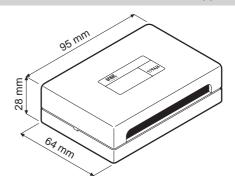
Terminal	Description
I1	Coax video door unit input 1
V5	Video signal ground input (video door unit sheath 1)
I2	Coax video door unit input 2
V5	Video signal ground input (video door unit sheath 2)
I3	Coax video door unit input 3
V5	Video signal ground input (video door unit sheath 3)
I4	Coax video door unit input 4
V5	Video signal ground input (video door unit sheath 4)
I5	Coax video signal input (for cascade connection; de-energised passing through "U")
V5	Video signal ground input (video door unit sheath 4)
U	Coax video signal output
V5	Video signal ground output (sheath)

Terminal	Description
TC4	Video door unit camera power output 4
TC3	Video door unit 3
TC2	Video door unit 2
TC1	Video door unit 1
R2	Camera power input

Terminal	Description
T	Button input
0V	Button ground
RES	Reset input

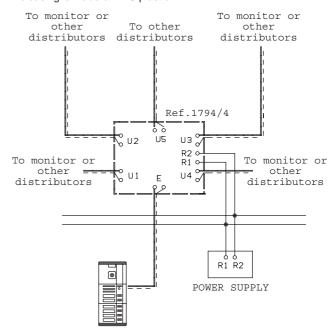
DIMENSIONS

Lenght: 120 mm
Width: 120 mm
Depth: 55 mm

The device can be wall-mounted using the screws provided.

VIDEO DISTRIBUTOR Ref. 1794/4 CE

The Ref. 1794/4 is used to distribute the video signal according to the various installation needs:

- on several riser columns;
- across floors.

It is provided with 4 outputs for an equal number of extensions.

The connections are made using screw type terminal strips.
The casing is made of ABS plastic.

IMPORTANT
For video distributors using output U5, remove (cut) the 75 Ohm resistor fitting on the printed circuit.

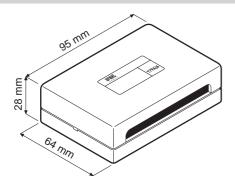
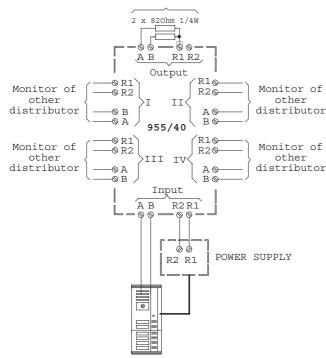
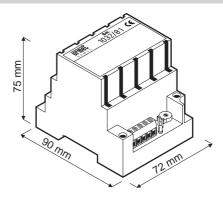
ELECTRICAL CHARACTERISTICS

Power supply:	**12 ÷ 20 V cc**
Input impedance:	**75 Ω**
Output impedance:	**75 Ω**

NOTE: ***The unused video distributor outputs must not be closed by a 75 Ω resistor.***

DIMENSIONS

Lenght: 95 mm
Width: 64 mm
Height: 28 mm

4-OUTPUT DISTRIBUTION BOX Ref. 955/40 CE

The video house phones can be connected using distribution boxes at the floor, which are indispensable for distribution of the video signal.
The Ref. 955/40 distribution box features one input, one thru type output and 4 outputs for branching towards the related video house phones.
The device must be powered at 18 Vdc between terminals R1 and R2.

LOCK RELEASE TIMER Ref. 1032/81 CE

The Ref. 1032/81 devices are used to time the powering of an electrical lock as follows:

a) with jumper AR to "NO" position: the timer will operate the relay output when external command "SE2" is received only for the time set on the potentiometer (TIME), regardless of whether the input signal continues or not.
b) with jumper AR in "YES" position: timer will operate the relay output for the minimum programmed time: the output will remain active if the input signal "SE2" lasts longer than the programmed time.

Electrical locks can be:

- directly activated by capacitance discharge;
- activated by capacitance discharge and 150 mA hold current;
- safety electrical locks.

TECHNICAL FEATURES

Voltage on +24:	**22 ÷27Vdc**
Voltage on +12/~:	**10÷15Vdc/ac**
Continuous current from AP:	**125÷170mA**
Timing range:	**1÷30Sec ±20%**
Functioning temperature:	**-1÷45°C**
Max. resistive commutable charge:	**10A with 24Vdc/10A with 120Vac**
Max. voltage for switching:	**240Vac/110Vdc**
Max. resistive commutable power:	**1400VA with 240Vca/300W with 110Vdc**
Min. charge to apply:	**10mA with 5Vdc**
Maximum load at 12 Vdc:	**200 mA**

DESCRIPTION OF TERMINALS

Terminal	Description
+24	Voltage input 22-27Vdc
+12/~	Voltage input 10-15Vdc o 10-15Vac
-/~	Common wire
-/~	Common wire
SE2	Timer adjust input; its activation is possible by connecting it to the voltage common wire
AP	Door release output
NO	Contact normally open
NC	Contact normally closed
C	This one is common for NC/NO, it is normally connected to the voltage common wire with jumper AMCR

DISPLAY

LED LI on: input SE2 is active
LED LO on: the relay output is active

LOCK RELEASE TIMER Ref. 1032/81

DIAGRAMS

12V DC VOLTAGE ADAPTER FOR SECONDARY CAMERA 12Vcc Ref. 1840/44

JUMPERS AND ARRANGEMENTS

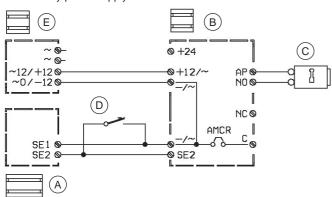
AR: possibility of recycle
AMCR: possibility of connecting the common wire of the relay
TIME: potentiometer for programming the delay of the activation of the output relay; the max. delay may be obtained by turning the potentiometer clockwise.

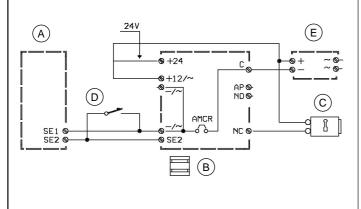
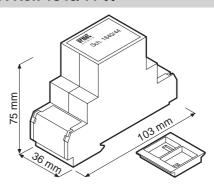
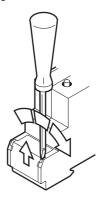
DIMENSIONS

Lenght: 72 mm (4 DIN 18 mm modules)
Width: 90 mm
Height: 75 mm

DIAGRAMS

CONNECTION SCHEME FOR ACTIVATION OF ELECTRIC LOCK WITH TIMER
Use an additional power unit to power the lock when uptake of 200 mA from the system is not possible.

LEGENDA
A Video Power supply Ref. 798/5B
B Timer Ref. 1032/81
C Electric lock
D Door release key
E Auxiliary power supply Ref. 9000/230 o 8500A.

CONNECTION SCHEME FOR ACTIVATION OF SECURITY ELECTRIC LOCK
Voltage with separated security power supply.

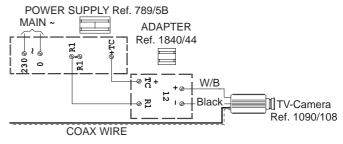
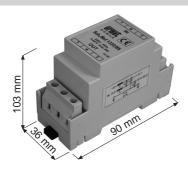
LEGENDA
A Video Power supply Ref. 798/5B
B Timer Ref. 1032/81
C Electric lock
D Door release key
E Security power supply 12 V dc/ac or 24 Vdc

12V DC VOLTAGE ADAPTER FOR SECONDARY CAMERA Ref. 1840/44 CE

The adapter is used to reduce camera power voltage (18Vcc) supplied with power unit 789/5B at a voltage of 12Vdc. This device can be used to power additional camera Ref. 1090/108.The device can be installed on the wall with the racket supplied or on a DIN bar.
Lever as shown in the figure to access the connection clips.

The connections are made using screw type terminal strips. The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.
The casing is made of self-extinguishing ABS plastic.

ELECTRICAL CHARACTERISTICS

Power supply:	**18 ÷ 21 Vdc**
Output:	**12 Vdc ±1%**
	0,25A continuous
	0,3 A intermittent
Power:	**3W max**

DIMENSIONS

Lenght: 36 mm (2 DIN 18 mm modules)
Width: 103 mm
Height: 75 mm

SV102-2877

POWER LINE PROTECTION DEVICE 230 Vac 4000VA Ref. 1332/85 CE

This is a voltage surge varistor power line protection device.The device immediately trips to limit amplitude and preserve the devices installed downstream to the device in the presence of voltage surges generated by atmospheric events.Install a power line filter 230V 4000VA Ref. 1332/86 downstream to the power protection device to ensure better system operation.
Level of protection:
as per standard IEC 61643-1 and A1: class III with Uoc 6 kV

INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal "1 ", IN side.

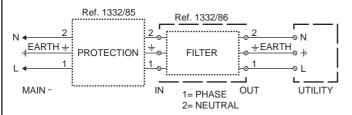
IMPORTANT
The device must be protected by fitting appropriate restricted earth-fault protection with current flow equal to 18 A and differential switch with opening current equal to 30mA. The protection device must be connected to earth. Device efficacy will be better at lower earth system resistance.For this reason,the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

SPECIFICATIONS

Power protection with tripping tension ≥ 300 Veff.
On two self-extinguishing DIN modules.

Nominal voltage:	**230 Vac**
Maximum voltage:	**255 Vac**
Maximum current:	**20 A**
Working frequency:	**50 Hz**
Power:	**4000 VA**
Temperature range:	**-25 °C +40 °C**

DIMENSIONS

Lenght:	36 mm (2 DIN 18 mm modules)
Width:	90 mm
Height:	103 mm

POWER LINE FILTER 230Vac 4000VA Ref. 1332/86 CE

This is a two-cell,high-attenuation,one-phase filter for frequencies >0.1 MHz active on common and differential mode interference.The device is intended to prevent the propagation of external radiofrequency interference on the power mains which could cause faults in the electrical and electronic devices connected to the mains.Install a power line protection device 230V 4000VA Ref.1332/85 upstream to the power filter to ensure better system operation.

INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal "1 ", IN side.

IMPORTANT
The device must be protected by fitting appropriate restricted earth-fault protection with current flow equal to 18 A and differential switch with opening current equal to 30mA. The power filter device must be connected to earth.Filter efficacy will be better at lower earth system resistance.For this reason,the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

SPECIFICATIONS

One-phase, two-cell, high-attenuation filter for common and differential interference f >0.1Mhz.
On two self-extinguishing DIN modules.

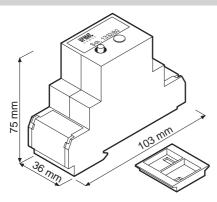
Nominal voltage:	**230 Vac**
Maximum voltage:	**255 Vac**
Working frequency:	**50Hz**
Attenuation:	**60 dB frequency 2 MHz**
Maximum current:	**20 A**
Power:	**4000 VA**
Temperature range:	**-25 °C +40 °C**

DIMENSIONS

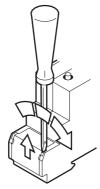
Lenght:	36 mm (2 DIN 18 mm modules)
Width:	90 mm
Height:	103 mm

Note: *See power line protection wiring diagram Ref. 1332/85.*

POWER LINE PROTECTION DEVICE Ref. 1332/80

POWER LINE PROTECTION DEVICE
Ref. 1332/80 CE

The power line protection device protects electronic devices in general - and telephone devices in particular - from power surges and interference on the 230V power line.
The Urmet Domus protection device Ref. 1332/80 is equipped with a re-arming thermal switch.
The presence of output voltage is indicated by a red warning light.
The thermal switch trips and cuts off power to utilities in the presence of output current in excess of 2A (eff). The power warning light goes out and the re-arm button springs out from the casing. To re-arm the device, press the re-arm button until it clicks. Re-arming will not be possible in the presence of short-circuit or excessive output load.
The device is built according to the following standards:
CEI 103-1/12: Protection of indoor telephone systems.
CEI 70-1: Degree of protection classification for casings.
The device is CE marked.

INSTALLATION

The device may be fastened to the wall by means of the bracket provided or fitted on a DIN bar.
Lever as shown in the figure to access the connection terminals.
The connections are made using screw type terminal strips. The maximum cross-section area of the wires to be connected to the terminal boards is 1.5 mm2.
Check electrical connections before powering the circuit.
Locate the live wire with a power phase finder and connected to terminal “L”.
The device is equipped with a re-arming fuse which cuts off the circuit in the presence of overload or short-circuit in the utility circuit.
Press the button on the top of the casing to re-arm the circuit.
The red warning light will indicate the presence of network voltage.

IMPORTANT
The ground terminal of the power line protection device must be connected to the electrical system ground.
Device efficacy will be better at lower ground system resistance. The system must comply with CEI 64-8/5, 10/1992, booklet 1920 standards.
Install in accordance with CEI 64-8/4 10/1992 booklet 1919 standards concerning safety matters.

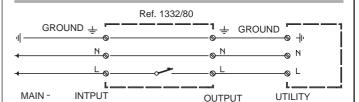
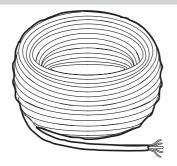
Be careful to connect the live and neutral wires correct to the respective terminals.

TECHNICAL FEATURES

Power voltage:	**230Vac ± 10% 50/60 Hz**
Max Power:	**400 VA**
Temperature:	**-5 +45 °C**
Casing material:	**self-extinguishing plastic**
Humidity:	**95% UR max**

DIMENSIONS

Lenght:	36 mm (2 DIN 18 mm modules)
Width:	103 mm
Height:	75 mm

WIRING DIAGRAM

MULTICORE CABLES

Both cables are subjected to dielectric rigidity test at approx. 2000 Vac voltage for 5 minutes among wires and wires and sheath.
As regards fire reaction, they are classified as not flame propagating according to the Rules 20-35 (IEC 332-1).

8 WIRE PLUS COAX MULTICORE CABLE Ref. 7057/235

Used for connections between the power supply and riser, and for distribution to the floors.
Composed of:

- coax cable;
- blue and red wires 1 mm^2 (terminals R1 and R2);
- brown and white wires 0.8 mm^2 (terminals 9, ...);
- light blue wire 0.5 mm^2 (terminal 6);
- white/green, grey and black wires 0.35 mm^2 (term. 7, 2, 1).

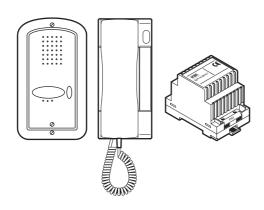
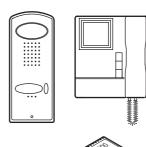
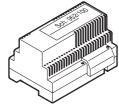
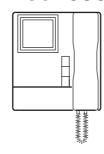
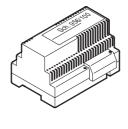
In any case, the section of the wires is in proportion to the system with a maximum distance of 100 m between the video outdoor station and the last monitor. The outside diameter of the cable is 15 mm. It is supplied in reels of about 100 m.

14 WIRE PLUS COAX MULTICORE CABLE Ref. 7057/234

Used for connections between the power supply and the video outdoor station. The number of wires are suffi cient for one-family systems (1 monitor only). For system of a higher capacity, further relative single call wires are required.
Composed of:

- coax cable;
- brown and green wires 0.8 mm^2;
- pink, blue, orange, violet, red, yellow wires 0.5 mm^2;
- light blue, grey, black, white, white/green, white/blue wires 0.35 mm^2.

In any case, the wire section is in proportion to the systems with a max. distance of 100 m between the video outdoor station and the last monitor. The outside diameter of the cable is 17 mm. It is supplied in reels of about 100 m.

ONE-FAMILY AND TWO-FAMILY KITS

Mod. 956

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Technical Manuals area
MT101-013_sec.5.pdf

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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - PRODUCT TECHNICAL MANUAL

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VIDEO SYSTEM FOR 1-2 FAMILY INSTALLATION Mod. 956

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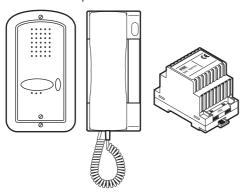
"AUDIO TWO " HOUSEPHONE KIT Ref. 1137/1

The "audio two" door phone kit ref. 1137/1 is used to make one-family door phone systems with electrical door lock release using only two wires to connect the door phone to the door unit.

The conversation is established by lifting the door phone handset following a call from the speaker station.
The calling volume can be adjusted to three levels (minimum - medium - maximum) during installation. No call is made if the handset is off-hook.
An additional ringer (Ref. 9854/41) can be connected to the door phone. The additional ringer output level is fixed and does not depend on the door phone ringing level setting.
The volumes can be adjusted during installation by means of the loudspeaking unit controls as shown in fig. 20. The name tag on the speaker is back-lit (it will go out during the conversation).
The electric lock can be operated at the end of the conversation by pressing the button on the door phone.
A mechanically released electric lock must be used (single pulse opening).

The maximum distance between the transformer and the door unit must be less than 110 m.

DEVICES

The base kit has the following devices:
- White door phone with door opening button
- Door speaker unit with one call button
- Power transformer

ACCESSORIES

The following accessories may be purchased separately:

• Metal box for flush mounting or welding to gate	**Ref. 1127/50**
• Additional ringer	**Ref. 9854/41**

SPARE PARTS

The following spare parts are provided for repairs:

• Door phone	**Ref. 1137/110**
• Transformer	**Ref. 1137/111**
• Push-button panel	**Ref. 1137/112**

TECHNICAL SYSTEM SPECIFICATIONS

Power supply:	**230Vac ± 10% 50-60 Hz**
Transformer output:	**12Vac (nominal)**
Transformer power:	**18 VA max**
Protection Electronic:	**fuse PTC (*)**
Electrical lock:	**12Vac**
Power unit-door unit distance:	**Max. 110 m**

Wire cross-section area:

distance = 60 m	**0,5 mm²**
distance = 90 m	**0,75 mm²**
distance = 110 m	**1 mm²**

(*) Disconnect the main power for at least 60" to reset the power unit if the PTC trips due to overload or short-circuit.

PANELS

SURFACE MOUNTING INSTRUCTIONS

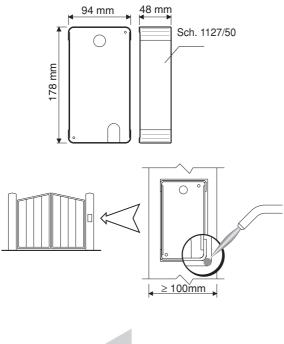
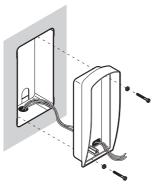
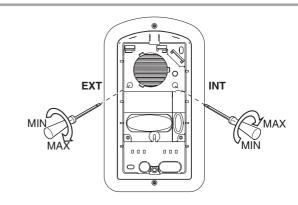
- Carefully feed the conductors through the knock-out holes (**C** or **D**).
- Fasten the back-box to the wall with the screws and bolts using holes **A** and **B** at a height so that the upper part of the front is approximately 1.55 ÷ 1.65 m from the floor.
- Connect proper wires to terminals.

FLUSH MOUNTING INSTRUCTION

- Arrange the wire passage using one of the specific compartments (**C** or **D** see "Wall mounting procedure").
- Insert bolts **E1**-**E2**.
- Fit the container assembled in this way in the wall at a height so that the upper part of the front panel is approximately 1.55 ÷ 1.65 metres from the ground and position the top so that it rests against the wall.
- Complete the assembly by fastening the frame to the wall with two screws **G1** and **G2**.
- Connect the wires to the respective terminals.

INSTRUCTIONS FOR USING THE METALLIC BACK BOX Ref. 1127/50

Purchase the metallic box for mounting and welding to gate pillar Ref. 1127/50 separately.
Proceed as follows:

- Fasten the metal box to the gate.
- Carefully feed the conductors through the knock-out holes (**C** or **D** see surface mounting)
- Fasten the pushbutton panel to the metal box using the screws and washers supplied with the kit.
- Connect proper wires to terminals.

SPEECH LEVELS ADJUSTMENT ON DOOR SPEAKER UNIT

The door unit is equipped with two potentiometers for adjusting the external and internal volume.

In order to adjust the external volume:

- turn the potentiometer EXT. clockwise to increase volume, counterclockwise to decrease it.

In order to adjust the internal volume:

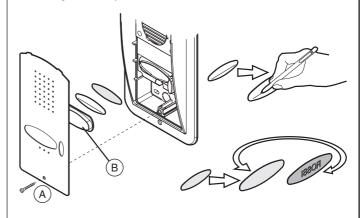
- turn the potentiometer INT. clockwise to increase volume, counterclockwise to decrease it.

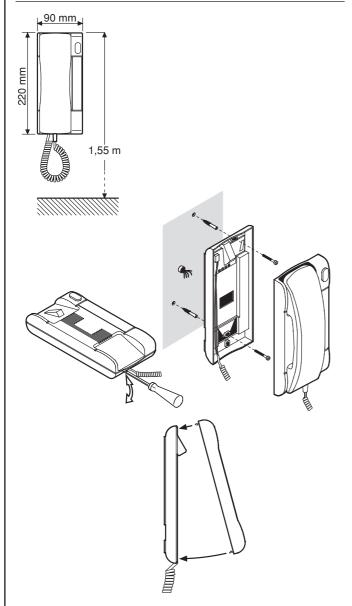
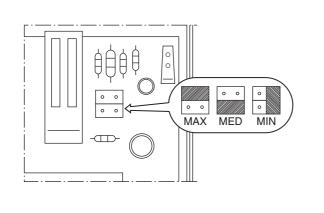
WRITING THE NAME TAGS

Write on the name tags as follows:

- Loosen screw "**A**" and remove the front panel;
- Remove the transparent cover (**B**);
- Two tags can be found underneath (one white and one printed):
  1. Write on the white tag on the side with the line;

  or
  2. Write on the printed tag on the matte side as in a mirror.

N.B.: The white tag is usually used provisionally until the engraved tags are ready.

INDOOR SET

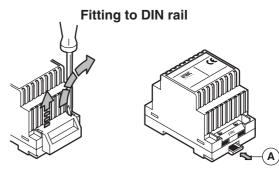
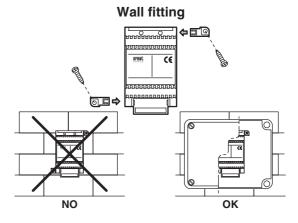
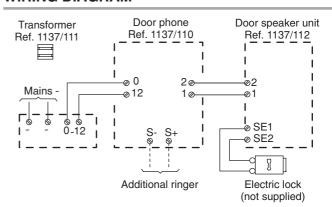
SURFACE MOUNTING

CALL TONE LEVEL ADJUSTMENT

TRANSFORMER

Before connecting the transformer to the mains, disconnect the mains switch.
Fit the protective cover on the network terminals after connecting the system.
Disconnect the mains power supply for 60" to reset the transformer if the PTC thermal switch trips due to overload or short-circuit.
Use lever "A" to remove the transformer fitted on a DIN rail.

Fitting to DIN rail

Wall fitting

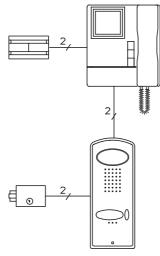
WIRING DIAGRAM

VIDEO TWO!

2-WIRE VIDEO SYSTEM FOR 1 FAMILY INSTALLATION Ref. 952/1

DEVICES - ACCESSORIES - REFERENCE STANDARDS

2-WIRE VIDEO SYSTEM FOR 1 FAMILY INSTALLATION

The Urmet Domus Videokit Ref. 952/1 can be used to make one family video house phone systems without coaxial cable and with only two wires connecting the monitor and the video house phone.
The 4” flat screen monitor does not need to be embedded.
A conversation between the loudspeaking station and the monitor can be held only if the monitor was previously called.
The ringer is two-tone electronic. The camera is a solid-state, high-sensitivity device, while illumination is ensured by an infrared LED. The video house phone features a door opener button and a button for automatic switch-on. The third button is not used.

System block chart

Press the button on the panel: the call is sent to the monitor and the picture will appear after approximately 4 seconds.
The call tone will last for approximately five seconds. Lift the handset to stop the call tone and speak with the video house phone.
The monitor switch-on is timed (approximately 90 seconds). Any subsequent call or automatic switch-on will reset the timer.

DEVICES

The basic product configuration is as follows:

- One button camera unit
- Video house phone with bracket Winflat style
- Power supply

ACCESSORIES

The following accessories can be purchased separately:

- Gate fastening tool **Ref. 1727/50**
- Supplementary ringer **Ref. 9854/41**
- Supplementary house phone **Ref. 1132**
- Wall-fitting bracket for supplementary monitor **Ref. 952/90**
- Winflat supplementary monitor **Ref.1202/1A**

SPARE PARTS

The following spare parts are provided for repairs:

- Power supply **Ref. 952/100**
- Monitor **Ref. 952/103**
- Camera unit **Ref. 952/104**

TECHNICAL SPECIFICATIONS

MONITOR

Power supply:	**26 Vdc**
Consumption:	**800 mA max**
Kinescope:	**4” Flat**
Resolution:	**450 TV lines**
Video input:	**1 Vpp differential**
Ringer:	**electronic two-tone**
Controls:	**brightness and contrast**
	door opening button + switch-on button
Dimensions:	**216 x 206 x 79 mm**
Weight:	**1.5 kg (including bracket)**

CAMERA UNIT

Camera:	**CCD 1/4”**
Lighting:	**infrared LED**
Power supply:	**18 Vdc**
Timer:	**approximately 90”**
Dimensions:	**94 x 235 x 56 mm**
Weight:	**0.9 kg**

POWER SUPPLY

Power supply:	**110/230 Vac ± 10% 50/60 Hz**
Power:	**38 VA**
Secondary unit:	**26 Vdc 0.9 A (timed 20%)**
Protections:	**with PTC thermal switch (*)**
Dimensions:	**96 x 126 x 75 mm**
Weight:	**1.1 kg**

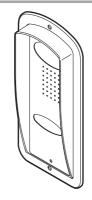
(*) To restore the power supply if the PTC thermal switch trips following overload or short-circuit, power the unit down for 60 seconds or longer.

REFERENCE STANDARDS

Safety standards:	EN 60065
Electromagnetic compatibility standards:	EN 50081-1, EN 50082-1

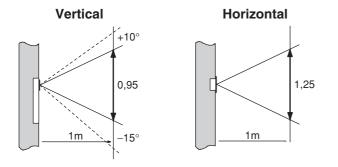
WIRE CROSS-SECTION AREA

Distance	50m	100m
Power supply/monitor	0.75 mm^2	–
Monitor/Camera	0.5 mm^2	0.75 mm^2

NOTE: *the basic kit connections are not polarised. The conductor section must be respected.*

CAMERA UNIT

The camera unit is supplied complete with:
- CCD solid-state camera and sensor.
- Infrared LED lighting units.
- Embedding box.
- Front panel with one button.
- Electronic circuits.
- Name plate light.

The internal and external sound volume can be adjusted by means of the specific controls.
The camera unit can be wall surface fitted with bolts by using the specific holes. Use the specific accessory Ref. 1727/50 for half-embedding the unit.

FRAME VIEW

The vertical view range can be adjusted by means of the camera bracket in the upper part of the video house phone unit. The bracket can be reached by removing the front panel.

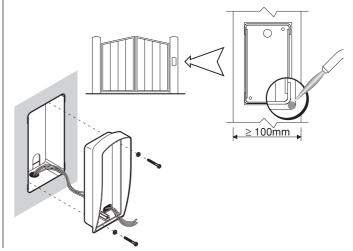
SURFACE MOUNTING INSTRUCTIONS

- Carefully feed the conductors through the knock-out holes (**C** or **D**).
- Fasten the back-box to the wall with the screws and bolts using holes **A** and **B** at a height so that the upper part of the front is approximately 1.55 ÷ 1.65 m from the floor.
- Connect proper wires to terminals.

FLUSH MOUNTING INSTRUCTION

- Arrange the wire passage using one of the specific compartments (**C** or **D** see “Wall mounting procedure”).
- Insert bolts **E1**-**E2**.
- Fit the container assembled in this way in the wall at a height so that the upper part of the front panel is approximately 1.55 ÷ 1.65 metres from the ground and position the top so that it rests against the wall.
- Complete the assembly by fastening the frame to the wall with two screws **G1** and **G2**.
- Connect the wires to the respective terminals.

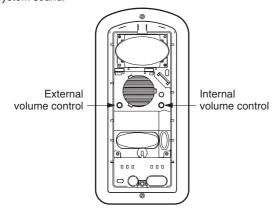
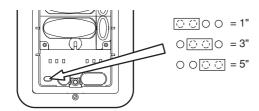
INSTRUCTIONS FOR USING THE METALLIC BACK BOX Ref. 1727/50

Purchase the metallic box for mounting and welding to gate pillar Ref. 1727/50 separately.
Proceed as follows:
- Fasten the metal box to the gate.
- Carefully feed the conductors through the knock-out holes (**C** or **D** see surface mounting).
- Fasten the pushbutton panel to the metal box using the screws and washers supplied with the kit.
- Connect proper wires to terminals.

VIDEO TWO!

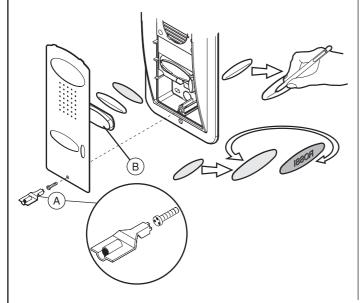
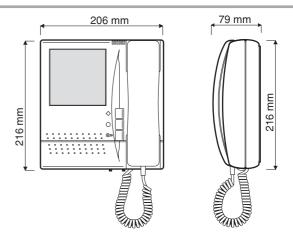
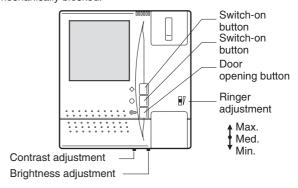
2-WIRE VIDEO SYSTEM FOR 1 FAMILY INSTALLATION Ref. 952/1

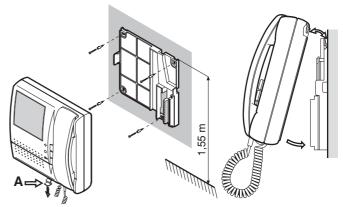
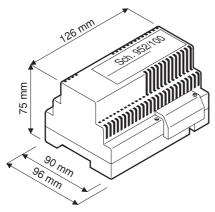
WRITING THE NAME TAGS - WINFLAT+ VIDEO HOUSE PHONE - WALL-FITTING INSTRUCTIONS

ADJUSTING THE SOUND

Remove the front panel by removing the specific vandal-proof screw and turn the two controls (INT. channel and EXT. channel) to adjust the system sound.

PROGRAMMING THE DOOR OPENING TIME

WRITING THE NAME TAGS

Write on the name tags as follows:
- Loosen screw "**A**" and remove the front panel;
- Remove the transparent cover "**B**";
- Two tags can be found underneath (one white and one printed):
  1. Write on the white tag on the side with the line;
  or
  2. Write on the printed tag on the matte side as in a mirror.

N.B.: *The white tag is usually used provisionally until the engraved tags are ready.*

WINFLAT+ VIDEO HOUSE PHONE

A wall-fitted indoor video house phone with 4" kinescope and last-generation flat screen, which means that the device can be wall fitted without being embedded given its very low projection from the wall. The device is extremely simple and fast to install since the line wire connections all lead to extractable terminal boards on the back of the monitor.
The monitor is equipped with the following buttons:
- a door opening button.
- an automatic switch-on button.
- button ◇ on the monitor cannot be used and for this reason is mechanically blocked.

WALL-FITTING INSTRUCTIONS

1. Arrange the conduit so that it ends at the input hole.
2. Fasten the bracket to the wall with the four screws at the height from ground shown.
3. Connect the wires to the specific terminals on the back of the monitor.
4. Extract retainer **A**.
5. Insert the monitor in the bracket.
6. Lock the monitor in position by pushing retainer **A** inwards.

POWER SUPPLY Ref. 952/100

The power supply unit provides power to the entire system. It is connected to the monitor by means of two wires. It can be wall-fitted or fitted on DIN bar.
The power supply unit must be installed in dry places protected from weather conditions.

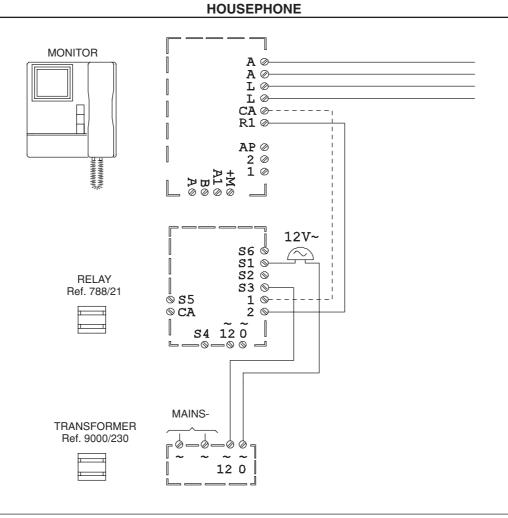
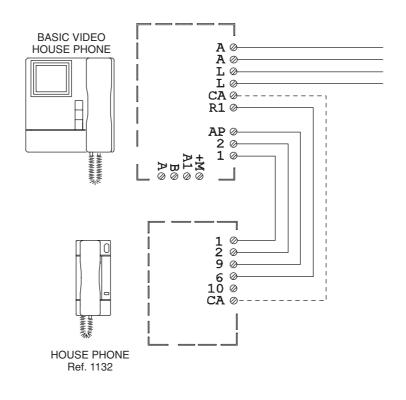
126 mm in length correspond to seven 18 mm modules, as per DIN 43880 standard.

BASIC KIT CONNECTION
SUPPLEMENTARY RINGER Ref. 9854/41 CONNECTION IN PARALLEL TO ONE VIDEO HOUSEPHONE CALL

MONITOR

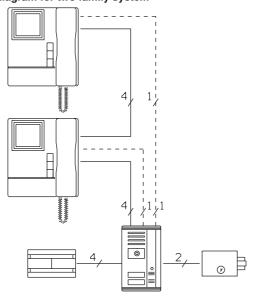
RINGER
Ref. 9854/41

CALL REPEATER RELAY CONNECTION FOR CONTROLLING A SUPPLEMENTARY RINGER
ONE HOUSE PHONE Ref. 1132 CONNECTION IN PARALLEL TO THE BASIC VIDEO HOUSEPHONE

VIDEO TWO!

ONE WINFLAT+ Mod.1202 VIDEO HOUSE PHONE CONNECTION IN PARALLEL TO THE BASICVIDEO HOUSE PHONE

VIDEO SYSTEM FOR 1-2 FAMILY INSTALLATION Mod. 956

Urmet Domus video house phone system Mod. 956 allows single and two-user video systems without coax cable and with a reduced number of wires: 4 common wires + 1 calling wire for each monitor.
The 4” monitor with flat screen does not need any embedding and, as for Urmet Domus traditional video house phone system, the image appears only on the called monitor.
The conversation between the outdoor station and the monitor can take place even if the indoor set has not been called.
The call is electronic bitonal type; the TV camera unit uses a CCD TV camera; the subject is lighted by means of infrared Leds.
The monitor is equipped with a door-release key and 2 additional keys that can be used for any service or as self-insertion key: in this case the system needs an additional wire in conduit.

Block diagram for two family system

By pressing a button of the push button panel the call is sent to the monitor on which the image appears after 4” about.
By unhooking the handset, the conversation with the video outdoor station can take place.
Monitor lighting is timed (one minute about). Every new call cancels the previous one with timer reset.

EQUIPMENT

The products are the following:
- One-family video house phone kit **Ref. 956/11**
  Composed by:
  - TV camera unit with 1 key
  - Winflat+ monitor with bracket
  - Power supply
- Two-family video house phone kit **Ref. 956/12**
  Composed by:
  - TV camera unit with 2 keys
  - 2 Winflat monitors with bracket
  - Power supply

ACCESSORIES

The available accessories (not included in the kit) are the following:
- Kit for table version **Ref. 1202/92**
- Anodized aluminum frame **Ref. 825/32**
- Anodized aluminum hood cover **Ref. 825/42**
- Anodized aluminum housing with hood cover **Ref. 825/52**

SPARE PARTS

The possible spare parts for repair are the following:
- Power supply **Ref. 956/110**
- Printed circuit for TV camera unit **Ref. 956/112**
- Bracket for monitor **Ref. 1202/955**
- Monitor **Ref. 1202/1A**
- Tubular 15V 3W bulb **Ref. 725/758**

IMPORTANT: Refer to “Video door phone apartment station” section for characteristics of the WINFLAT+ apartment stations.

TECHNICAL DATA

MONITOR

Supply:	**18 Vdc max.**
Absorption:	**430 mA max.**
CRT:	**4” flat screen**
Resolution:	**450 TV lines**
Video input:	**1 Vpp differential**
Call:	**bitonal electronic**
Controls:	**Lighting, door release + service key**
Dimensions:	**215 x 225 x 72 mm**
Weight:	**1,4 kg (without bracket)**

TV CAMERA UNIT

TV camera:	**CCD 1/3”**
Subject lighting:	**Infrared Leds**
Power supply:	**18 V max.**
Timer:	**45” min.**
Video output:	**1 Vpp differential**
Dimensions:	**125 x 215 x 60 mm**
Weight:	**0,7 kg.**

POWER SUPPLY

Supply voltage:	**230 V ~ 50/60 Hz 38 VA**
Output:	**12 V ~ , 18 V**
Protections:	**PTC (*)**
Temperature:	**-5 °C + 45 °C**
Dimensions:	**126 x 78 x 90 mm (as 7 modules DIN)**
Weight:	**1,1 Kg**

(*) When using PTC, after a short-circuit or overload, out the voltage for at least 60 sec.

WIRE MINIMUM SECTIONS

FROM TV CAMERA UNIT TO MONITORS

FUNCTION	WIRES		50m	100m	200m
Video power supply	R1	mm^2	0,50	0,75	1,50
Video power supply	R2	mm^2	0,50	0,75	1,50
Video signal (∗)	A,B	mm^2	0,35	0,35	0,35 Twisted
Call Twisted	C1, C2	mm^2	0,35	0,50	0,75
Self-insertion call	AI	mm^2	0,35	0,35	0,35

Nota ∗: *The A and B wire section must be respected. Up to 100 m it is possible to use normal wires; for longer distances, up to 200 m, twist the wires A and B.*

VIDEO SYSTEM FOR 1-2 FAMILY INSTALLATION Mod. 956

TV CAMERA UNIT

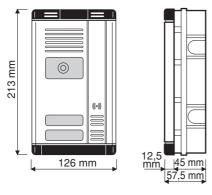
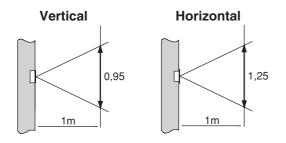
FROM POWER SUPPLY TO TV CAMERA UNIT

FUNCTION	WIRES		50m	100m
Power supply 12V~	~12	mm^2	0,75	1,50
Power supply 12V~	~0	mm^2	0,75	1,50
Power supply 18V=	+18	mm^2	1,50	2,50
Power supply 18V=	R1	mm^2	1,50	2,50

Distances are between the TV camera unit and the last monitor.
From the power supply to the TV camera unit, the maximum distance is 100 m.

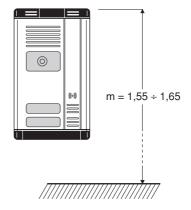
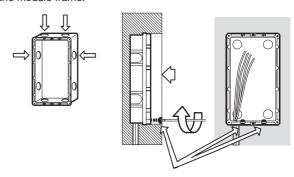
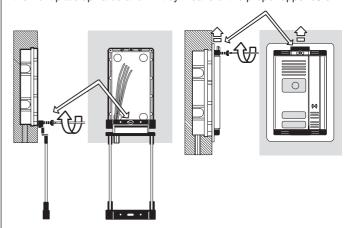
TV CAMERA UNIT

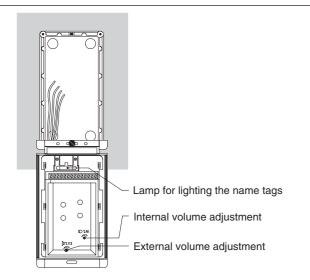
The TV camera unit is mounted on Kombi modular elements with 2 modules. It includes:
- CCD TV camera
- Infrared Led for lighting
- Embedding box
- Front plate with 1 or 2 keys
- Electronic circuit
- Lamp for lighting the name tags

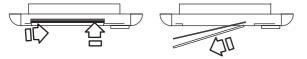
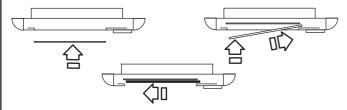
The internal and external sound volumes can be adjusted by operating on the proper controls.
To light the name tags, connect the lamp terminals to the power supply 12 V (see the scheme).
The TV camera unit is compatible with the accessories of the Kombi line.

PICK-UP FIELD

The TV camera unit has a fixed shooting angle, and no vertical adjustment is possible.

INSTALLATION

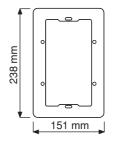
WALL EMBEDDED VERSION

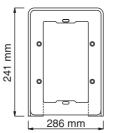
The video outdoor station is recommended to be installed at a such a height that the upper part of the TV camera unit module is 1,55 ÷ 1,65 m from the floor.

Before embedding the box in the wall, prepare a hole for passing the wires through. In the embedding box containing the TV camera unit, the hole must be opened only in the areas shown by the arrows. The embedding box must be walled flush to the finished plaster and must not protrude.
If the box is embedded too deeply, tighten the two screws (on the lower side of the box) in the special holes until the head is brought flush to the wall; this will avoid subsequent distortions of the lower headstock of the module frame.

Fix the TV camera unit to the embedding box as shown in the figure by means of the proper lower screw. Make the electric connections. Turn the front plate upwards and fix it by means of the proper upper screw.

Close the front plate and fix the upper headstock to the box (the fastening screw is freed by lifting the special slide).

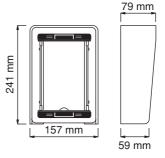
VOLUME ADJUSTMENT AND LIGHTING

NAME TAG APPLICATION

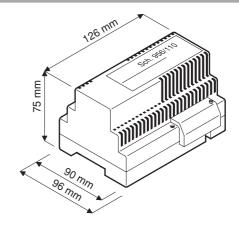
The name tag can be inserted from the outside.
Take off the outer plate by pressing the righthand side and pushing outwards.
This operation releases the plexiglass plate (57 x 15,5 x 1,2 mm) and the mylar card (0,1 mm thick).
The name can be written temporarily on the card and will be definitively engraved on the plexiglass plate.

Reverse the procedure to replace the name card and the external plate.

ACCESSORIES INSTALLATION

EMBEDDING FRAME FOR WALL EMBEDDED VERSION Ref 825/32

The frame is used to cover possible irregularities of the wall around the embedding boxes. It is inserted between the module and the wall and is provided with special rubber sealings to prevent water from leaking in.

HOOD COVER FOR WALL EMBEDDED VERSION Ref. 825/42

The hood cover is useful to protect the video outdoor station from bad weather. It is supplied complete with embedding frame and has to be inserted between the wall and the module.

HOUSING WITH HOOD COVER FOR WALL SURFACE MOUNTING Ref. 825/52

The housing with hood cover protects the video outdoor station from bad weather and allows the wall surface mounting without embedding.

Purchafe the accessories, if necessary, separately. Refer to “Panels Kombi” section for the installation.

POWER SUPPLY Ref. 956/110

The power supply gives the supply necessary to all the system. It is connected to the TV camera unit by means of 4 wires and it can be fixed to the wall or on bar DIN.
It should be kept in a dry and weatherproof place.
The length of 126 mm corresponds to 7 modules of 18 mm, according to the DIN 43880 standard.

CONNECTION OF THE ONE-FAMILY VIDEOKIT TO A VIDEO OUTDOOR SET

SV102-2082

VIDEO HOUSE PHONE
MOD. WINFLAT+

X1
X2
G
CA
A
B
R2
R1

NOTE▲

POWER SUPPLY

MAINS~

~12
+18
R1
~0

SE2 ~0 R1 +18 ~12 ~0 SE1

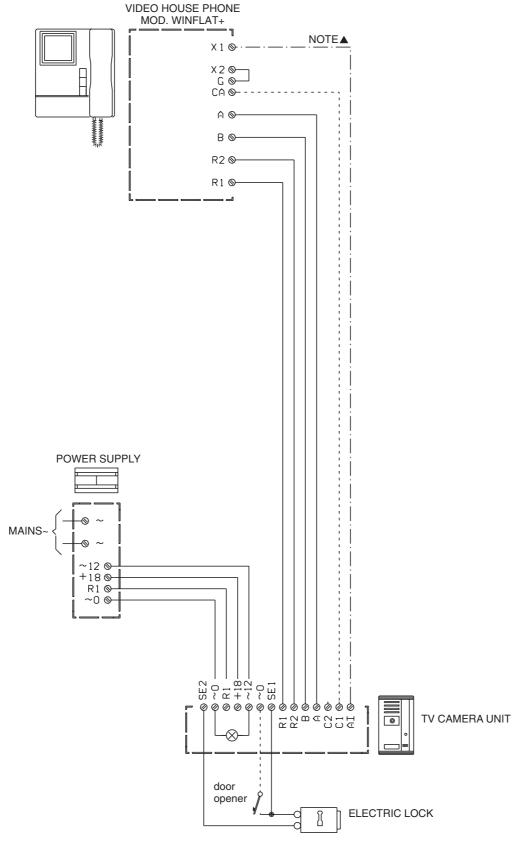
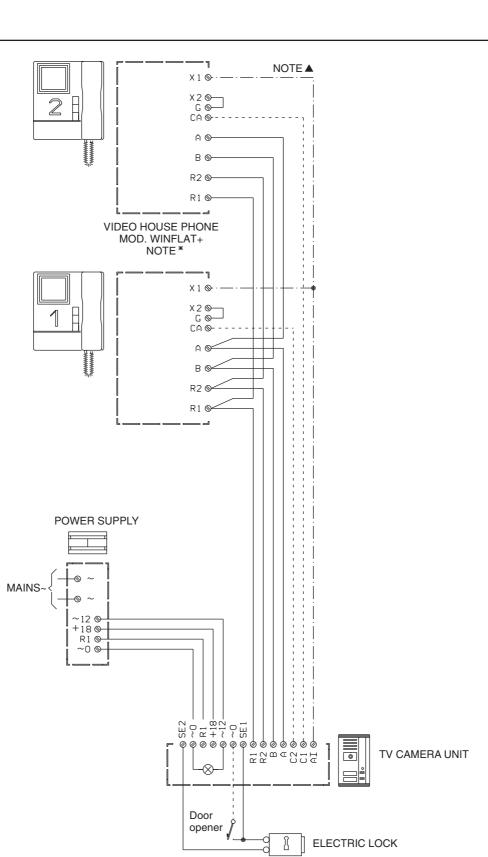
R1 R2 B A C2 C1 AI

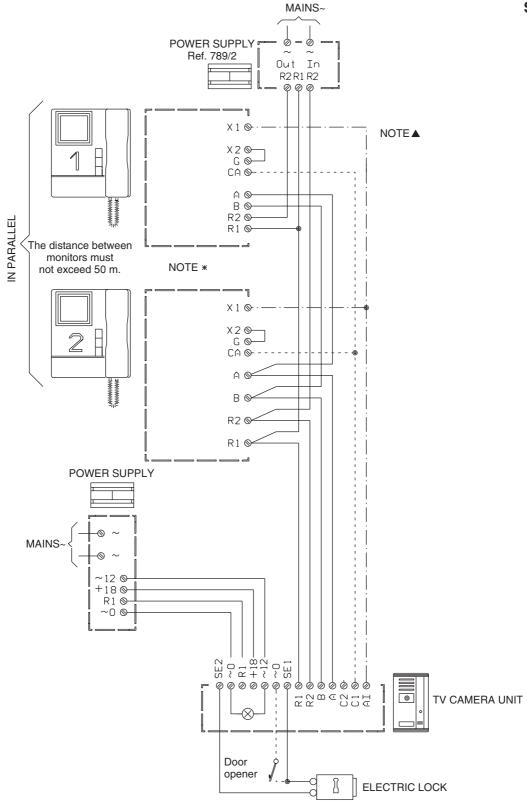
TV CAMERA UNIT

door
opener

ELECTRIC LOCK

Nota ▲: Connect the wire -.-.-.-.-. for Self-insertion function. In this case make a jumper between terminals X2 and G.

CONNECTION OF THE TWO-FAMILY VIDEOKIT TO A VIDEO OUTDOOR SET

SV102-2081

Nota ▲: Connect the wire -.-.-.-.-. for Self-insertion function. In this case make a jumper between terminals X2 and G.

Nota ∗: in the two family kit (SV102-2081 and SV102-2135) the commun wires A and B to the monitor 1 have to begin from the terminals of monitor 2.

CONNECTION OF 1 VIDEOKIT WITH 1 KEY
Parallel call from 1 video outdoor station

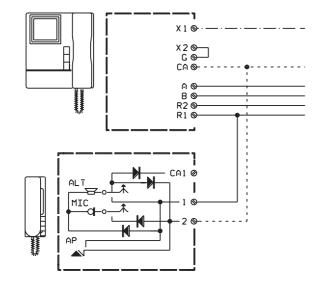
SV102-2135

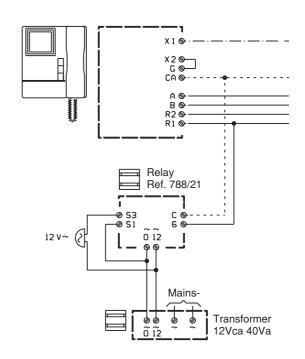
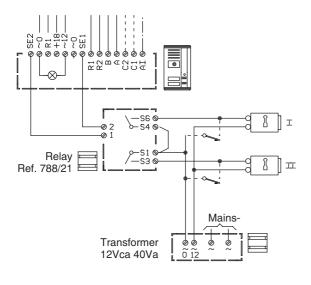
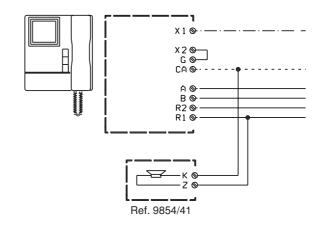
Nota ▲: Connect the wire -.-.-.-.-. for Self-insertion function. In this case make a jumper between terminals X2 and G.

Nota ⁎: in the two family kit (SV102-2081 and SV102-2135) the commun wires A and B to the monitor 1 have to begin from the terminals of monitor 2.

SV102-2136B

CONNECTION IN PARALLEL OF 1 HOUSE PHONE Ref. 1131/35 or 1132/35 AND 1 VIDEO HOUSE PHONE

CONCURRENT DOOR RELEASE OF 2 LOCKS

SV102-2137

CONNECTION OF A CALL REPEATER RELAY FOR CONTROL OF 1ADDITIONAL ELECTRONIC CHIME

CONNECTION OF THE ADDITIONAL ELECTRONIC CHIME Ref. 9854/41 IN PARALLEL TO 1 VIDEO HOUSE PHONE CALL

BASIC SYSTEM DIAGRAMS

Basic diagrams for connecting a panel to door phones and video door phones in electronic call systems are illustrated in this section.
Other diagrams are collected in section MT0101-012 where useful advices for choosing the right system and warnings for installers are provided.
The complete collection of technical diagrams (including those in this section) may be found at the www.urmetdomus.com web site in the CLUB IN area "Electrical Diagrams".

Download from:
www.urmetdomus.com
Technical Manuals area
MT101-013_sec.6.pdf

	Diagram	Section	Pag.
BASIC SYSTEM DIAGRAMS			
DIAGRAM NOTES		6	**2**
BASIC DIAGRAMS FOR 4+N WIRE ELECTRONIC DOOR PHONE SYSTEMS Connection of several door phones to 1 door unit Mod. Sinthesi or Mod. K-Steel	**SC101-1133A**	6	**4**
BASIC DIAGRAMS FOR 1+1 WIRE ELECTRONIC DOOR PHONE SYSTEMS Connection of house phones to 1 outdoor station with secrecy of conversation	**SC101-1135C**	6	**6**
BASIC DIAGRAMS FOR COAX ELECTRONIC VIDEO DOOR PHONE SYSTEMS Connection of video house phones to 1 video outdoor station	**SV102-2631D**	6	**8**
BASIC DIAGRAMS FOR 6-WIRE ELECTRONIC DOOR PHONE SYSTEMS Connection of a video house phone riser to a video outdoor station with secrecy device	**SV102-2633E**	6	**10**

C1.002 - MINIMUM WIRE CROSS-SECTION AREAS

Distance m	50	100	200
Cross-section area sq.mm	0,35	0,75	1

Provide two wires for switching on the push-button panel light bulbs. Use a power transformer suitable to the number of light bulbs. The system transformer is sufficient for up to 2 bulbs (max 6 W).

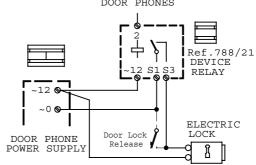
C4.001 - MINIMUM WIRE CROSS-SECTION AREAS

Distance	m	50	100	200	300
Voice and call circuit	sq.mm	0,5	0,5	0,8	1
Door opening circuit	sq.mm	0,5	0,8	1	1,6

- The indicated distance is between door unit and most distant door phone.
- Lay the wires at a suitable distance from power lines (as far away as possible).

Provide two wires for switching on the push-button panel light bulbs. Use a separate transformer suitable to the number of light bulbs. The system power unit is sufficient for up to 2 bulbs (max 6 W). Transformer ref. 9000/230 is recommended for up to 5 bulbs (max 15 W).

C4.004 - Use auxiliary relay ref.788/21 for operating the lock in systems with long lines to avoid buzzing.

The connection variant is:

C4.006 - Sinthesi models only:
- Connected jumper ... to ...

C4.007 - Sinthesi models only:
See instruction booklet provided with product for connecting terminals G/T, ~0 and ~12 between modules.

C4.008 - K-Steel models only:
all connections are made with terminal boards.

C4.018 – door unit only K-steel – connect terminals ~0 and ~12 for name tag lights

BASIC SYSTEM DIAGRAMS
DIAGRAM NOTES

V5.001 - Wire cross-section area

Maximum distance		m	50	100	200
Wires	R1	Sq.mm	0,75	1,5	2,5
	R2	Sq.mm	0,5	1,0	2,0
	CA	Sq.mm	0,35	0,50	0,75
	A,B	Sq.mm	0,35	0,35	0,35 Double wires

The diagrams indicate the distance between the camera and most distant video door phone unit.
Normal wires can be used for distances up to 100 metres. For higher distances (up to 200 metres) the wires A and B must be doubled.

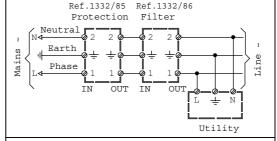
VD.002 - See the chapter "Demister power" in the chosen product manual for K-Steel camera modules only.

VX.003 - MINIMUM WIRE CROSS-SECTION AREAS

Distance	m	50	100	200	300
Normal Wires	Sq.mm	0,5	0,8	1	1,6
Wires R1,R2,+TC	Sq.mm	0,8	1	1,6	2,5
COAXIAL CABLE 75 Ohm	Use a normal coaxial wire for distances up to 300 m Add a video amplifier for longer distances.				

Provide two wires for switching on the push-button panel light bulbs. Use a separate transformer suitable to the number of light bulbs. (Transformer ref. 9000/230 is recommended for up to 5 bulbs). The system power unit is sufficient for up to 2 bulbs.

VX.006 - See the instruction book provided with the product for fitting the accessory in the device.

VX.008 - Connect the devices to a filter and power line protection device.

VX.010 - No more than 20 monitors should be connected to each column; add video distributors to the camera output or other device if there are more devices.

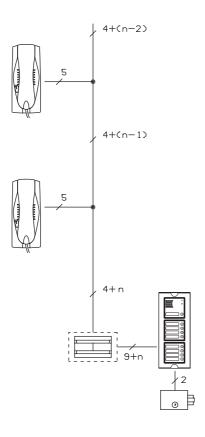
VX.011 - Close the coaxial wire on the last monitor in the riser with a 75 Ohm resistance between terminals V4 and V5.

VX.014 - Dusk switch or similar device for switching lights on, where relevant.

VX.018 - Connect the following jumpers on the device:
a) ..... with .....
b) ..... with .....
c) ..... with .....

Connection of several door phones to 1 door unit
Mod. Sinthesi or Mod. K-Steel

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent house phone loudspeaker. When the called house phone handset is unhooked, contact is established and conversation may take place. To operate the electric lock it is sufficient to press the proper push button.

DEVICES

The following devices are needed for the system illustrated in diagram SC101-1133 A:

DOOR PHONE DIAGRAMS

N. X	Atlantico door phones	White	**Ref. 1133**
	or:		
N. X	Door phones Mod. 1132	White	**Ref. 1132**
		Black	**Ref. 1132/40**
	or:		
N. X	Door phones Mod. 1131	White	**Ref. 1131**

POWER UNIT DIAGRAMS

N. 1	Power unit, available versions:	
	28VA for bar mounting	**Ref. 786/1A or Ref. 786/14A**
	or:	
	38VA for bar mounting	**Ref. 786/38A**

DOOR UNIT DIAGRAMS

Sinthesi model

N. Y	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2a for respective diagrams and installation methods.

or:

K-Steel model

N. Y	Button modules	**Ref. 1155/11-/12-/13-/14**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b for respective diagrams and installation methods.

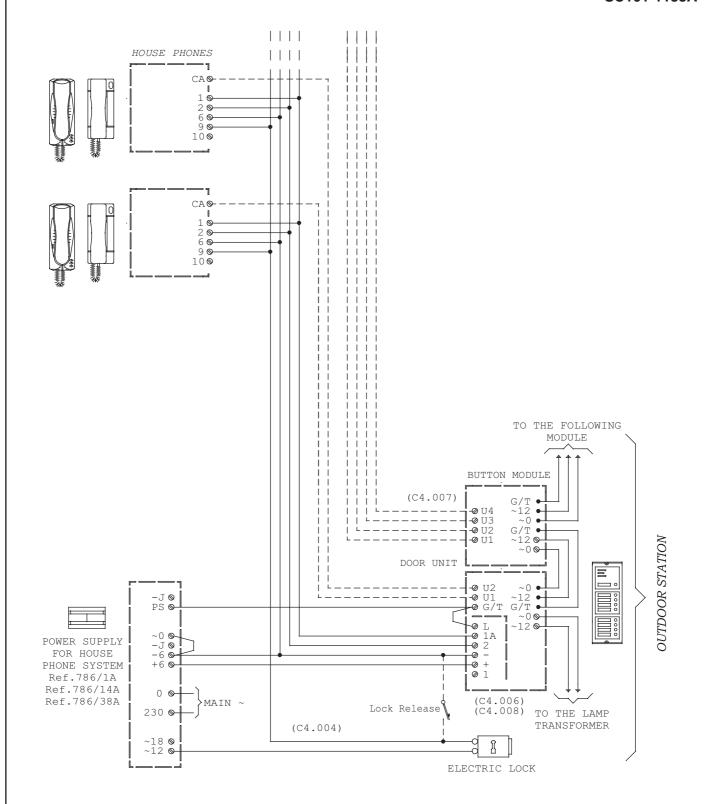
DIAGRAM NOTES

(see section 1)
C4.001
C4.004

C4.006
Sinthesi models only:
Connect jumper L with G/T

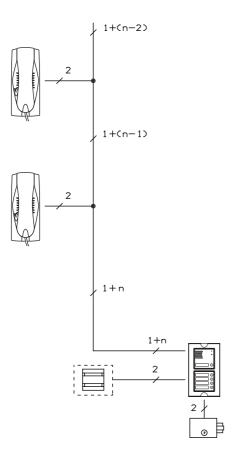
C4.007
C4.008

BASIC DIAGRAMS FOR 4+N WIRE ELECTRONIC DOOR PHONE SYSTEMS
Connection of several door phones to 1 door unit
Mod. Sinthesi or Mod. K-Steel

SC101-1133A

BASIC SYSTEM DIAGRAMS

FUNCTION

URMET DOMUS 1+1 wire system allows to obtain the service of a standard outdoor set installation with conversation, call, electric lock opening, with only 2 wires in the rising column: 1 common + 1 single for each house phone. The outdoor set is fed, with two wires only, by a 12Vac voltage transformer.

To assure call secrecy on all the house phones of the system, specific secrecy circuits (one for each button) are fitted inside the push button panel. In this way, all the house phones are normally disabled for conversation (no conversation is heard when the hand-set is lifted); only the house phone called from the outside can start the conversation with the caller, certain that no other user can barge in and intercept the call.
The house phone called remains enabled for conversation until a subsequent call to another appliance is made from the push button panel.
Release of the electric lock is also enabled by the secrecy circuit which means that a user cannot open the lock unless he/she has been called.

DEVICES

The following devices are needed for the system illustrated in diagram SC101-1135C:

DOOR PHONE DIAGRAMS

N. X	Atlantico door phones	**Ref. 1133/35A**
	or:	
N. X	Door phones Mod. 1132	**Ref. 1132/35**
	or:	
N. X	Door phones Mod. 1131	**Ref. 1131/35**

POWER UNIT DIAGRAMS

N. 1	Transformer	**Ref. 9000/230**

DOOR UNIT DIAGRAMS

Sinthesi models

N. Y	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21**
N. 1	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2a for respective diagrams and installation methods.

or:

K-Steel models

N. Y	Button modules	**Ref. 1155/11-/12-/13-/14**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32**
N. X/4	Conversation privacy device	**Ref. 1155/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b for respective diagrams and installation methods.

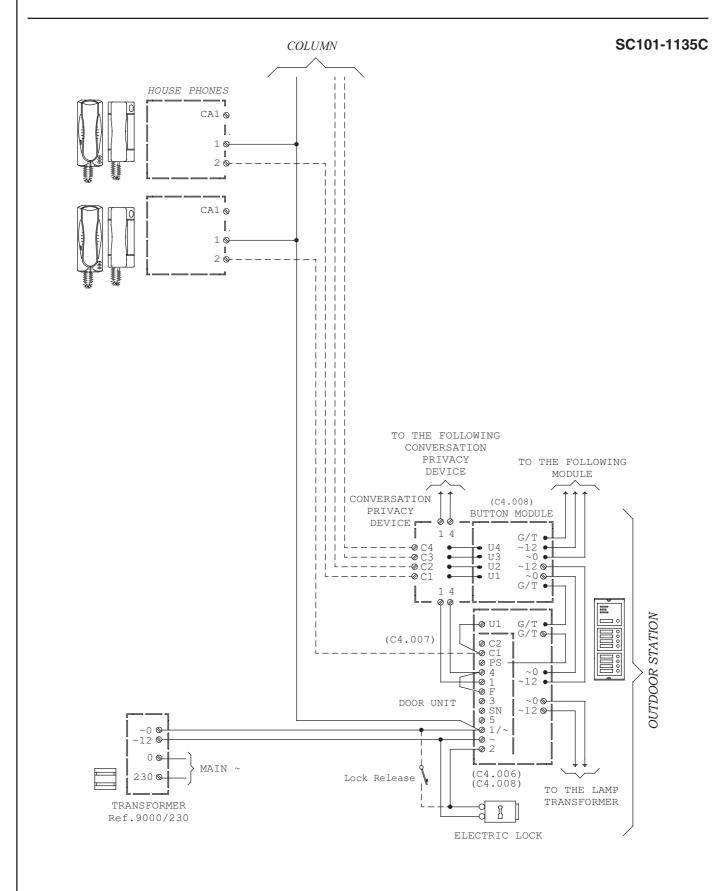
DIAGRAM NOTES

(see section 1)
C1.002

C4.006
Sinthesi models only:
Connect jumper C1 with U1

C4.007
C4.008

BASIC DIAGRAMS FOR 1+1 WIRE ELECTRONIC DOOR PHONE SYSTEMS
Connection of house phones to 1 outdoor station with secrecy of conversation

SC101-1135C

BASIC SYSTEM DIAGRAMS

FUNCTION

This system allows connection between the video outdoor station and the various monitors situated in the apartments. When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding monitor loudspeaker and, after about 8 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset.
At the end of the conversation, the electric lock can be operated by pressing the key ( ).
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second monitor is called before the end of the 60 seconds, the first monitor will automatically go off and the latter comes on. This feature guarantees secrecy of vision.

DEVICES

The following devices are needed for the system illustrated in diagram SV102-2631D:

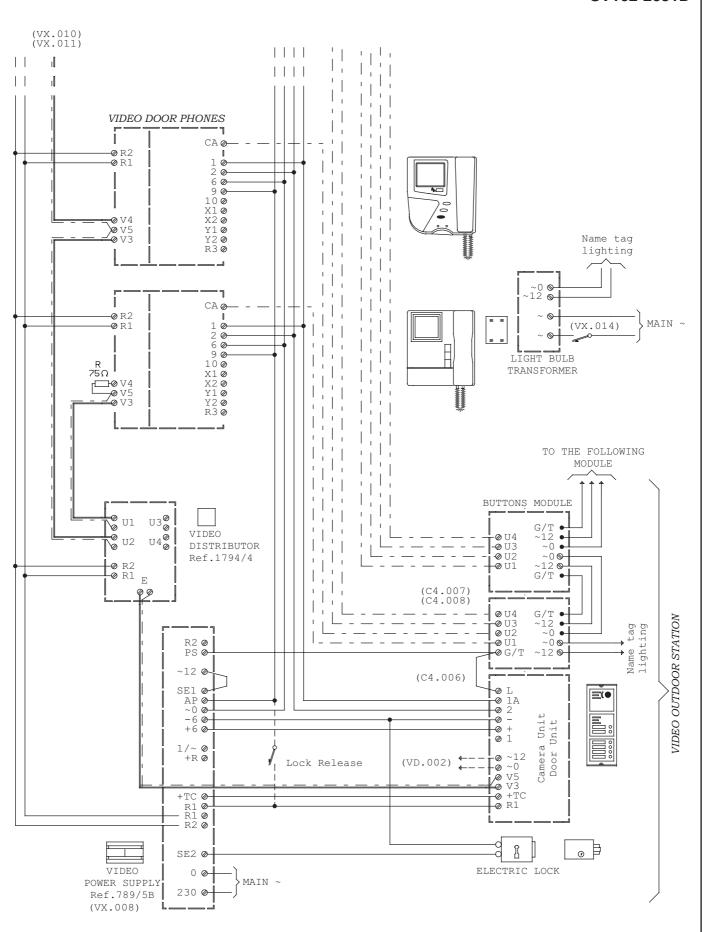
		Ref.	Quantity
VIDEO DOOR PHONES			
Video door phone	**Sentry+**/Direct vision *or* **Sentry+**/Reflex vision	**1704/1A** **1704/10A**	N
Bracket for	**Sentry+**	**1704/90**	N
Embedding box for wall mounting	**Sentry+** Direct vision only	**1704/60**	N
or			
Kit for table version	**Sentry+** Direct vision only	**1704/50**	
or			
Video door phone	**Winflat+**	**1202/1A**	N
Bracket for	**Winflat+**	**1202/90**	N
Kit for table version	**Winflat+**	**1202/92**	N
CAMERA UNIT			
Camera modules with built-in door unit	**Sinthesi** *or* **K-Steel**	**1745/80-/81 -/82** **1755/80**	1
Button modules	**Sinthesi** or **K-Steel**	**1145/11-/12 -/13 -/14** **1155/11-/12 -/13 -/14**	X
MISCELLANEOUS			
Video power unit	**230V**	**789/5B**	1
Video distributor		**1794/4**	1

DIAGRAM NOTES

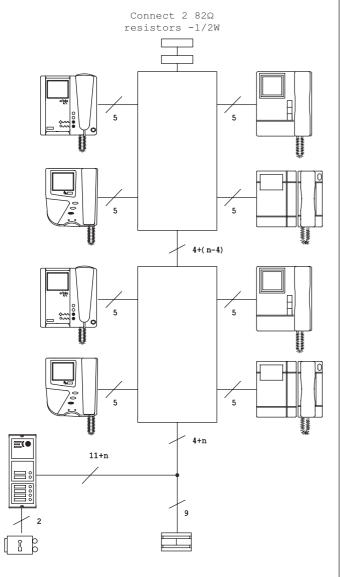
(see section 1)
C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007
C4.008
VD.002
VX.003
VX.008
VX.010
VX.011
VX.014

BASIC DIAGRAMS FOR COAX ELECTRONIC VIDEO DOOR PHONE SYSTEMS
Connection of video house phones to 1 video outdoor station

SV102-2631D

BASIC DIAGRAMS FOR 5-WIRE ELECTRONIC DOOR PHONE SYSTEMS
Connection of a video house phone riser to a video outdoor station with secrecy device

FUNCTION

The 5-wire video door phone system implements conversation privacy, call and door opener functions in normal door phone systems with only 5 wires in the riser column: 4 common + 1 single for each device.
The door unit is powered with only two wires and a transformer at 12V~.
The most interesting application of a 5-wire system is in old building where a door phone system is already fitted. The existing service can be transformed into a video door phone system without adding wires to the column or in the apartments.
Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all video door phones in the system (one for each button).
All video door phones are normally deactivated (no sound is heard when the handset is picked up); only the video door phone called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called video door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.

DEVICES

The following devices are needed for the system illustrated in diagram SV102-2633E:

	Ref.	Quantity
VIDEO DOOR PHONES		
Onda model		
Video door phone	**Ref. 1701/30**	X
Bracket	**Ref. 1701/60**	X
or		
Winflat+ model		
Video door phone	**Ref. 1202/1A**	X
Bracket	**Ref. 1202/955**	X
Table mounting kit	**Ref. 1202/92**	X
or		
Mod. Sentry+ (Direct vision)		
Video door phone	**Ref. 1704/1A**	X
Bracket	**Ref. 1704/955**	X
Flush-mounting box	**Ref. 1704/60**	X
or		
Table mounting kit	**Ref. 1202/92**	X
or		
Mod. Sentry+ (Reflex vision)		
Video door phone	**Ref. 1704/10A**	X
Bracket	**Ref. 1704/955**	X
or		
Mod. Scaitel		
Video door phone	**Ref. 1732/1**	X
Bracket	**Ref. 1704/955**	X
Door phone	**Ref. 1132/35**	X
Table mounting kit	**Ref. 1732/56** + **Ref. 1132/50**	X
VIDEO DOOR UNIT		
Sinthesi model		
Double module with camera and door unit	**Ref. 1745/20-/21-/22**	1
Button modules	**Ref. 1145/11-/12-/13-/14**	N
Conversation privacy device	**Ref. 1145/74**	4
or		
Mod. K-steel		
Camera module	**Ref. 1755/30A**	1
Door unit module	**Ref. 1155/30-/31-/32**	1
Button modules	**Ref. 1155/11-/12-/13-/14**	N
Conversation privacy device	**Ref. 1155/74**	4
MISCELLANEOUS		
Video power unit	**Ref. 789/5B**	1
Video signal distributors	**Ref. 955/40**	X/4

DIAGRAM NOTES

(see section 1)
C4.007
C4.008
C4.018
V5.001
VD.002
VX.006
VX.008
VX.014

VX.018
Connect the following jumpers on the device:
a) R1 to 1
b) CA to 2

BASIC DIAGRAMS FOR 5-WIRE ELECTRONIC DOOR PHONE SYSTEMS
Connection of a video house phone riser to a video outdoor station with secrecy device

SV102-2633E

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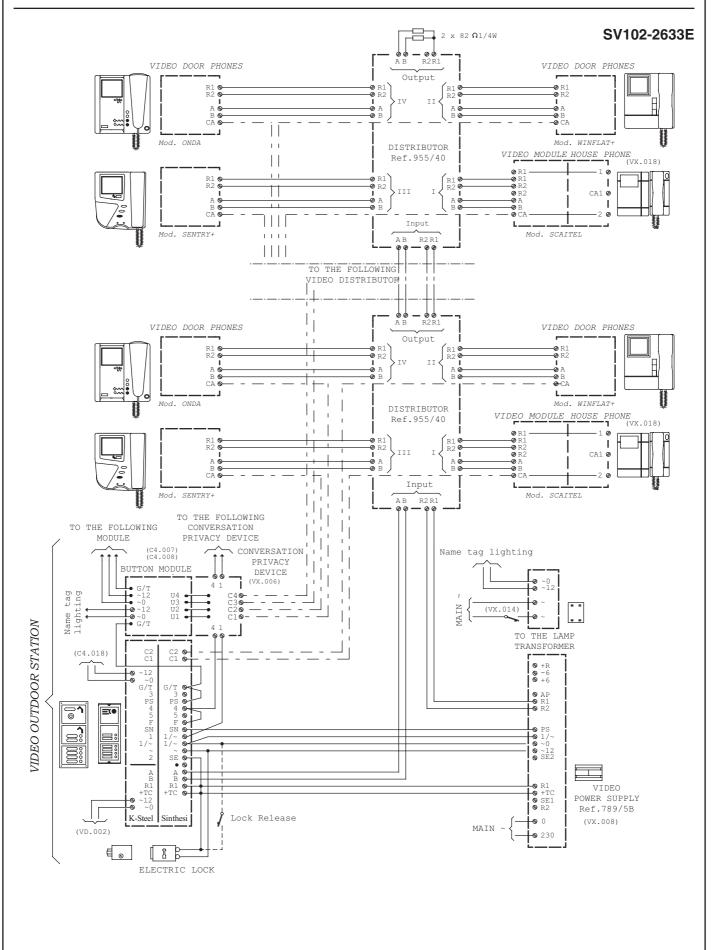
CERTIFICATO N.
CERTIFICATE N. **9110.URMD**

SI CERTIFICA CHE IL SISTEMA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY SYSTEM OPERATED BY

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VIA BOLOGNA,188/C - 10154 TORINO (TO)

UNITA' OPERATIVE
OPERATIVE UNITS

VIA BOLOGNA, 188/C - 10154 TORINO (TO)

E' CONFORME ALLA NORMA
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ISO 9001:2000

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

EA: 19

Progettazione, sviluppo e produzione di sistemi di citofonia, videocitofonia, sicurezza e telefonia

Design, development and production of door entryphone systems, video door entryphone systems, security systems and telephone systems

Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2000
Refer to quality manual for details of applications to ISO 9001:2000 requirements

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